BOWKER, 1678.

AN

ALMANACK

FOR THE

Year of our Lord God, 1678.

BEING THE

Second after *Bissextile* or *Leap-year*.

Containing the Motions of the Sun, Moon, Planets, and Fixed Stars, the Aspects of the Planets, and inclination of the Air.

The time of High-water at *London-bridge* every day in the Year: And also in 55 other Ports and Havens about ENGLAND.

WITH

A Brief CHRONOLOGY in a New Mode; and divers other necessary things pertinent to the compleating of a Diary or Day-book, suitable to all mens occasions.

Hereunto is added, a brief View of *Astronomy*, and a Refutation of the *Copernican* Opinion concerning the Earths Motion.

Calculated properly for the Meridian of *London*, And may generally serve the two Famous Islands of GREAT BRITAIN and IRELAND.

By *JAMES BOWKER*, Astrophil.

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The Common Notes and Moveable Feasts for this Year 1678. according to the Accounts

Julian, or English.		Gregorian, or Forreign.
7	The Golden Number	7
1	The Cycle of the Sun	6
F	Dominical Letter	B
1	The Epact	7
February 10	Shrove-Sunday	20 *February*
March 31	Easter-day	10 *April*
May 5	Rogation Sunday	15 *May*
May 9	Ascension day	19 *May*
May 19	Whitsunday	29 *May*
May 26	Trinity-Sunday	5 *June*
December 1	Advent-Sunday.	28 *November*

No Marriage without a Licence.

From { The beginning of the Year till *January* 14.
February 2. to *April* 6.
May 10. till *May* 25.
December 1. till *January* 14. 1679.

VENUS is an Evening Star from the beginning of the Year till the ninth of *April*, and may be seen in the *West* after Sun is set; at which time she will be in Conjunction with the Sun, and then becomes a bright Morning-Star; and will so continue to the Years end.

The

The Beginning, Ending, and Returns of the Terms.

Return Days, or Days of Essoyn.		Days of Except.	Returna Brevium	Days of Appearance
Hilary-Term begins *January* 24. and ends *Febr.* 12.				
Octab. Hill.	*Jan.* 21	21	22	23
Quind. Hill.	*Jan.* 28	28	29	31
Craſt Purif.	*Feb.* 4	4	5	6
Octab. Purif.	*Feb* 1	11	12	12
Eaſter-Term begins *April* 17. ends *May* 13.				
Quinq. Paſch.	*Ap.* 13	15	16	17
Treſ. Paſch.	*Apr.* 20	22	22	23
Menſ. Paſch.	*Apr.* 27	29	29	30
Quinq. Paſch.	*May* 4	6	6	7
Craſt. Aſcenſ.	*May* 10	11	13	13
Trinity-Term begins *May* 31. and ends *June* 19.				
Craſt. Trin.	*May* 27	28	29	31
Octab. Trin.	*June* 3	4	5	6
Quind. Trin.	*June* 10	11	12	13
Treſ. Trin.	*June* 17	18	19	19
Michaelmas-Term begins *Octob.* 23. ends *Nov.* 28.				
Treſ. Mich.	*Octob.* 21	21	22	23
Menſ. Mich.	*Octob.* 28	28	29	30
Craſt. Anim.	*Nov.* 3	4	4	5
Craſt. Mart.	*Nov.* 12	13	14	15
Octab. Mart.	*Nov.* 19	20	21	22
Quind. Mart.	*Nov.* 26	27	28	28

The Exchequer opens eight days before any Term begins, except Trinity, before which it opens but four days.

Goose *goes to Law for Cozen* Ganders *Land,*
And Fox *the* Lawyer *takes the Cause in hand:*
Who (for his Counsel) taketh Fees *of either,*
And in the end leaves neither worth a Feather.
Now comes the Term, *and* Judgment *muſt proceed,*
Fools *they fell out, and* Beggers *they agreed.*

A Table shewing the time of High-water in all the Ports below-mentioned.

Moon's Age	Hours and Minutes to be added.		
	Ho.	M.	
1	0	49	
2	1	38	
3	2	26	
4	3	15	
5	4	3	
6	4	53	
7	5	41	Afternoon.
8	6	30	
9	7	19	
10	8	8	
11	8	56	
12	9	45	
13	10	34	
14	11	23	
15	12	11	
16	0	0	
17	1	0	
18	1	49	
19	2	38	
20	3	26	
21	4	15	
22	5	3	
23	5	53	
24	6	41	Morning.
25	7	30	
26	8	19	
27	9	8	
28	9	56	
29	10	45	
30	11	35	

The Names of the Ports.	Ho.	M.
QUeenborough, Southampton, Portſmouth,	0	0
Rocheſter, Maldon, Blackſail,	0	45
Graveſend, Dover, Blackneſs, Silly,	1	30
Dundee, St. Andrews, Lisbon, Lucas,	2	15
London, Tinmouth, Amſterdam, Rotterdam,	3	0
Barwick, Flushing, Flamborough,	3	45
Baltamoor, Corke, Severn, Calkice,	4	30
Falmouth, Humber, New-Caſtle,	5	15
Plimouth, Hull, Lin, St. Davids,	6	0
Briſtol, Start-point, Waterford,	6	45
Milford, Bridgwater, Lands-end,	7	30
Portland, Hartlew, Dublin,	8	15
Pool, Iſle of Man, Dunbar, Diepe,	9	0
Needles, Orford, South and N. Foreands,	9	45
Yarmouth, Dover, Harwich,	10	30
Rie. Winchelſey. Colſhot.	11	15

The Uſe of theſe Tide-Tables.

IN the Table following you have the Moons Age every day of the year; which being known, ſeek the Moons Age in this Table, and ſee what hours and minutes ſtand againſt it, thoſe hours and minutes being added to the hours and minutes which ſtand againſt the name of the place you would know the time of high-water at, will give you the time of high-water at that place.

Example.

If you would know what time it will be High-water at Graveſend *upon the* 22 *of* January, *look in the following Table, and againſt the* 22 *of* January, *you ſhall find the Moon is* 10 *days old: wherefore find* 10 *days in this Table under* (Moons age) *and againſt it you ſhall find* 8 *h.* 8 *m. which being added to* 1 *h.* 30 *m.* (*the hours and minutes ſtanding againſt* Graveſend) *the ſum is* 9 *h.* 38 *m. at which time it will be High-water at* Graveſend *on the* 22 *of* January *afternoon. But if the hours and minutes added together exceed* 12 *hours, you muſt caſt away* 12 *hours, and the time of high-water will remain. So on the* 21 *of* January, *the Moon being* 9 *days old, the hours and minutes againſt* 9 *days old are* 7 *h.* 19 *m. which add to* 10 *h.* 30 *m.* (*the hours and minutes ſtanding againſt* Dover) *make* 17 *h.* 49 *m. from which take* 12 *h. and there remains* 5 *h.* 49 *m. at which time it will be High-water at* Dover *the* 21 *of* January.

Within the narrow confines of this Page,
You have (for every day) fair Cynthia's *Age;*
Which had, in fifty five Ports, it decrees
Th' alternate motion of the restless Seas.

A Table of the Moons Age.

	Ja.	Fe	M	A.	M	J.	J.	A.	S.	O.	N.	D.
1	19	20	18	20	20	22	22	24	25	25	27	27
2	20	21	19	21	21	23	23	25	26	26	28	28
3	21	22	20	22	22	24	24	26	27	27	29	●
4	22	23	21	23	23	25	25	27	28	28	●	1
5	23	24	22	24	24	26	26	28	29	●	1	2
6	24	25	23	25	25	27	27	29	●	1	2	3
7	25	26	24	26	26	28	28	●	1	2	3	4
8	26	27	25	27	27	29	●	1	2	3	4	5
9	27	28	26	28	28	●	1	2	3	4	5	6
10	28	29	27	29	●	1	2	3	4	5	6	7
11	29	●	28	●	1	2	3	4	5	6	7	8
12	●	1	●	1	2	3	4	5	6	7	8	9
13	1	2	1	2	3	4	5	6	7	8	9	10
14	2	3	2	3	4	5	6	7	8	9	10	11
15	3	4	3	4	5	6	7	8	9	10	11	12
16	4	5	4	5	6	7	8	9	10	11	12	13
17	5	6	5	6	7	8	9	10	11	12	13	14
18	6	7	6	7	8	9	10	11	12	13	●	●
19	7	8	7	8	9	10	11	12	13	●	15	16
20	8	9	8	9	10	11	12	13	●	15	16	17
21	9	10	9	10	11	12	13	14	15	16	17	18
22	10	11	10	11	12	13	14	●	16	17	18	19
23	11	12	11	12	13	14	●	16	17	18	19	20
24	12	13	12	13	14	●	16	17	18	19	20	21
25	13	14	13	14	15	16	17	18	19	20	21	22
26	14	●	14	●	●	17	18	19	20	21	22	23
27	●	16	15	16	17	18	19	20	21	22	23	24
28	16	17	●	17	18	19	20	21	22	23	24	25
29	17		17	18	19	20	21	22	23	24	25	26
30	18		18	19	20	21	22	23	24	25	26	27
31	19		19		21		23	24		26		28

ALL things were of GOD created good	5617
Noah ascends the *Ark* t' avoid the *Flood*	3941
GOD the *Promise* made to *Abraham*	2605
Th' *Israelites* from *Egypts* Bondage came	3173
Solomon the *Temple* finished	2688
King *Sedecias* was a *Captive* led	2268
JESUS was of th' Blessed *Virgin* born	1678
For *Mans Sin* he suffer'd *Death* and *Scorn*	1655
First the *Saxons* stept on *English* ground	1123
Here the *Danes* the like advantage found	846
Norman William Britain over-power'd	612
Maud the *English-Saxon* Blood restor'd	574
Second *Henry Ireland* first assail'd	505
Our First *Edward* hence the *Jews* expell'd	387
Tyler fain would have the Throne ascended	296
He his *Life* with his *Rebellion* ended	296
Guns (those Mortal Engins) first were found	298
Printing made the world with Books abound	235
Philip of *Spain* did with Queen *Mary* marry	124
Coaches were invented men to carry	123
Lightning last consum'd S. *Paul's* high Spire	117
All the *Heavens* appeared on a Fire	104
Percy and great *Nevil's* Insurrection	109
Gresham-College and th' *Exchange* erection	107
Drake surrounded this our Globe of strife	101
Pious *Gresham* did exchange this Life	99
Saint *Domingo* Ransack'd was by *Drake*	91
Then the *Spaniards* did (not fight) but quake	93
Boasting *Spains* Armado overthrown	90
That Tobacco was in *England* known	87
Cales was from the *Spaniards* stoutly torn	82
CHARLES the First was at *Dunfermlin* born	78
JAMES of *Scotland* the *Englands* Crown posseſt	75
He th' Allegeance Oath upon us prest	70

Since

Fate reveal'd the Hellish Powder Plot 73
We rejoyc'd that it succeeded not 72
A Great Plague on *London* Heaven sent 53
Then at *Oxford* sate the Parliament 53
That the Duke of *Buckingham* was slain 50
England did conclude a Peace with *Spain* 49
Our Dread Sovereign first breath'd *Richmond* air 48
Bishop *Laud* began S. *Paul's* Repair 44
Charles the First advanc'd against the *Scot* 39
The Lord *Stafford* stooped to the Block 37
Charles his Royal Standard streaming stood 36
Keinton Field was dy'd with English Blood 36
Reverend *Laud* unto the Block did bow 34
Naseby Field first own'd that fatal blow 33
Charles the First left *Oxford* in disguize 32
He unto the *Scots* became a Prize 32
Martyr'd *Charles* receiv'd his fatal doom 30
The Rump Voted Kingship burthensome 30
Cromwel did Protectorship Usurp 26
In a Whirlwind he was taken up 19
Into *London* General *Monk* did come 19
The secluded Members he brought home 18
Charles the Second's coming to *White-Hall* 18
Forthwith he a Parliament did call 18
That the horrid Regicides were Try'd 18
They at *Charing-Cross* most justly dy'd 18
There appear'd three Comets in the Sky 13
That the *English* made the *Dutch* Ships fly 13
Londons last great Plague or Visitation 13
Holland thrice beat by the *English* Nation 13
(For our Sins) God in his dreadful Ire
London consumed by a dismal Fire 12
By his Providence Omnipotent
Restor'd and built far more Magnificent 7
Peace agreed 'twixt *English* and the *Dutch* 5
The shrill Trumpet noise'd it to be such 5

Since

☽ Last quarter the 6 day, 43 m. past 1 in the morning
● New Moon the 12 day, 21 m. after 5 at night
☾ First quarter the 19 day, 38 m. past 3 afternoon
○ Full Moon the 27 day, a quarter past 6 at night

Take heed of Cold, to Bath or Bleed take heed,
A good warm Coat this Month thy Back will need.

1	a	Circumcision	0	♒	22	21	♈	49	♄ 3.51 ♊	Cold and moist. ♂☾
2	b	Abel	12		24	22		50	♃ 29. 12 ♒
3	c	Enoch	24		29	23		51	♂ 15. 15 ♈ Very cold and frosty.
4	d	Mathusula	6	♓	45	24		52	☿ 10. 8 ♓
5	e	Simeon	19		13	25		53	☿ 1.35 ♒
6	f	Epiphany	1	♍	58	26		55	♄ 3.40 ♊ △♄☿ Warmer. Great
7	g	Felix	15		6	27		56	♃ 0.18 ♓
8	a	Lucian	28		41	28		57	♂ 19. 6 ♈ West or
9	b	Agapite V.	12	♐	45	29		58	☿ 15. 55 ♓ South-west
10	c	Paul Eremi.	12	♈	17	0	♒	59	☿ 10. 9 ♒ winds.
11	d	Hyginus	7		15	2		0	♄ 3.31 ♊ Cold air, and
12	e	Sotirius	2		30	3		1	♃ 1.26 ♓ ☌☌☾ winds
13	f	Hillary	12	♒	51	4		3	♂ 22.59 ♈ ♂☍☾
14	g	Felicia	28		6	5		4	☿ 21.25 ♓ ♂♃☾
15	a	Manca	13	♓	5	6		5	☿ 18.45 ♈
16	b	Marcellus	27		38	7		6	♄ 3.26 ♊ Easterly
17	c	Anthony	11	♈	41	8		7	♃ 2.35 ♓ wind and
18	d	Prisca	25		15	9		8	♂ 26.52 ♈ frosty.
19	e	Wolstan	8	♉	21	10		9	☿ 26.48 ♓ Close and
20	f	Sebastian	21		3	11		10	☿ 27. 2 ♒ □☽♃
21	g	Agnes	3	♊	28	12		11	♄ 3 23 ♊ Cloudy ♂♄
22	a	Vincent	15		40	13		12	♃ 2.44 ♓ ☾ air, with
23	b	Term begin	27		42	14		12	♂ 0.45 ♒ snow or fleet.
24	c	Timothy	9	♋	40	15		13	☿ 2. 2 ♈ □♄☿
25	d	Conv. S. P.	21		33	16		14	☿ 4.12 ♓ ☌♃☿
26	e	Polycarp	3	♌	28	17		15	♄ 2.23 ♊ Windy and
27	f	Septuages.	15		23	18		16	♃ 4.55 ♓ misty wea-
28	g	Carol. Mag.	27		23	19		17	♂ 4.39 ♒ ther, but
29	a	Theodore	9	♍	26	20		17	☿ 7. 8 ♈ warm S. West
30	b	K. Ch. I. Mart.	21		33	21		18	☿ 8.57 ♓ wind.
31	c	Cyriac.	3	♎	42	22		19	☿

JANUARY. 1678.

JANUARY *taketh the name either of* Janus, *an Ancient King of* Italy, *who for his wisdom and Providence was painted with two Faces, the one looking back to the Old Year, and the other forward to the New: Or else it takes the name of* Janua *a Gate, because it is the Gate or Entrance into the Year. The* Saxons *called this Month* Wolf-Monat, *viz.* Wolf-Month, *for that they were then in danger of being devoured by Wolves.*

	Sun rises.	Sun sets.	High-water at *London-bridge.*				
1	8	23	58	6	12		11 d
2	8	0	4	0	7	0	Day 8 hours long. 12 e
3	7	58	4	2	7	48	13 f
4	7	57	4	3	8	36	14 g
5	7	56	4	4	9	24	Day breaks at 5 h. 50 m. 15 a
6	7	55	4	5	10	12	Twi-light ends 6 h. 10 m. 16 b
7	7	54	4	6	11	0	17 c
8	7	53	4	7	11	48	Day lengthened 40 m. 18 d
9	7	52	4	8	12	36	Sun rises S E. by E. and sets 19 e
10	7	50	4	10	1	24	S W by S. 20 f
11	7	49	4	11	2	12	21 g
12	7	47	4	13	3	0	22 a
13	7	46	4	14	3	48	23 b
14	7	45	4	15	4	36	Day 8 hours and a half long. 24 c
15	7	44	4	16	5	24	25 d
16	7	42	4	18	6	12	26 e
17	7	41	4	19	7	0	South-arm of Crab South at 12. 27 f
18	7	39	4	21	7	48	28 g
19	7	38	4	22	8	36	29 a
20	7	36	4	24	9	24	Day breaks at 5 h. 32 m. 30 b
21	7	34	4	26	10	12	Twi-light ends 6 h. 28 m. 31 c
22	7	32	4	28	11	0	Febr.
23	7	31	4	29	11	48	Heart of Hydra South at 12. 1 d
24	7	30	4	30	12	36	Day 9 hours long. 2 e
25	7	28	4	32	1	24	3 f
26	7	26	4	34	2	12	The G. dog rises achronically 4 g
27	7	25	4	35	3	0	5 a
28	7	23	4	37	3	48	Day lengthened 1 h. 36 m. 6 b
29	7	21	4	39	4	36	7 c
30	7	20	4	40	5	24	Day breaks 5 h. 17 m. 8 d
31	7	18	4	42	6	12	Twi-light ends 6 h. 43 m. 9 e

February hath XXVIII days.

☽ Last quarter the 4 day, 22 min. past 4 afternoon
● New Moon the 11 day, 52 min. past 6 at night
☽ First quarter the 18 day, at 8 in the morning
● Full Moon the 26 day, at 12 at noon

Warm Cloaths this Moneth are good, old Sack no leſs,
Always provided you avoid Exceſs.

1	d	Bridget	16♎10	27♒	18	♄	3.27	♊		Weſt, or S.
2	e	Candlemas day	28 43	24	20	♅	6.21	♓		Weſt wind,
3	f	Sexageſim.	11♏30	25	21	♂	9.21	♒		and moiſt air.
4	g	Veronica	24 24	26	21	☿	12.59	♈		
5	a	Agathy	8♐ ♑	27	22	♀	9.23	♓		
6	b	Dorothy	21 52	28	22	♄	3.33	♊		Good and ſet-
7	c	Zachary	6♑ 8	29	23	♅	7.33	♓	☌ ♅ ☿	ſonable
8	d	Paul B.	20 50	○	23	♂	13.16	♒		weather.
9	e	Apolin	5♒53	1	24	☿	17.36	♈	☌ ☌ ☾	
10	f	Quinquageſ.	21 5	2	24	♀	5.30	♓		Shrove-Sund.
11	g	Euphroſina	6♓19	3	24	♄	3.43	♊	☌ ♅ ☾ ☐ ☉	
12	a	Term ends	21 21	4	25	♅	8.46	♓	☍ ☌ ☉ ☿	
13	b	Aſh-wedneſday	6♈ 1	5	25	♂	17.11	♒		for many days
14	c	Valentine	20 13	6	25	☿	21.57	♈	☌ ☿ ☾	
15	d	Fauſtin	3♉55	7	26	♀	0. 7	♓		
16	e	Julian V.	17 7	8	26	♄	3.54	♊		
17	f	Quadrageſ.	29 54	9	26	♅	9.58	♓	☌ ♄ ☾ ☌ ♅	
18	g	Concordia	12♊20	10	26	♂	21. 7	♒	○ N. Weſt	
19	a	Sabine	24 30	11	26	☿	25.58	♈		wind, cloudy
20	b	Mildred	6♋31	12	26	♀	26.13	♒		and ſmall
21	c	Ember W.	18 23	13	26	♄	4. 9	♊		miſling rain.
22	d	Peters Ch.	☾♌19	14	26	♅	11.11	♓		
23	e	Polycarp	12 8	15	26	♂	25. 2	♒	☌ ☌ ☿	
24	f	S. Matthias	23 8	16	26	☿	29.34	♈		
25	g	Victorine	6♍11	17	26	♀	25. 5	♓		Wet and
26	a	Vechor	18 22	18	26	♄	4.26	♊		winey weather
27	b	Auguſtine	0♎41	19	26	♅	12.23	♓		ends the
28	c	Roman	13 9	20	26	♂	28.57	♒		Moneth.

FEBRUARY. 1678.

FEBRUARY *takes the name a* Februis expiatoriis, *from certain expiatory Sacrifices, which the* Romans *in this Month offered to their God* Februus, *for purging of the Souls of the Dead, as they thought. The* Saxons *called it* Sprout-Kele, *because the Cole-wort (which they call* Kele) *in this Month yielded wholsome young Sprouts for their nourishment.*

H.	M.	H.	M.	H.	M.	*Incr. and Decr. of the days, with Southing of Stars and Planets.*		
1	7	17	4	43	7	0	11	g
2	7	11	4	44	7	48	12	a
3	7	14	4	46	8	36	13	b
4	7	13	4	47	9	24	14	c
5	7	1	4	49	10	12	15	d
6	7	10	4	50	11	0	16	e
7	7	8	4	52	11	48	17	f
8	7	6	4	54	12	36	18	g
9	7	4	4	56	1	24	19	a
10	7	2	4	58	2	12	20	b
11	6	59	5	1	3	0	21	c
12	6	58	5	2	3	48	22	d
13	6	56	5	4	4	36	23	e
14	6	55	5	5	5	24	24	f
15	6	54	5	6	6	12	25	g
16	6	53	5	7	7	0	26	a
17	6	51	5	9	7	48	27	b
18	6	49	5	11	8	36	28	c
19	6	46	5	14	9	24	Match	
20	6	44	5	16	0	1.	1	d
21	6	42	5	18	11	0	2	e
22	6	40	5	20	11	48	3	f
23	6	38	5	22	12	36	4	g
24	6	35	5	25	1	24	5	a
25	6	32	5	28	2	12	6	b
26	6	30	5	30	3	0	7	c
27	6	27	5	33	3	48	8	d
28	6	24	5	36	4	36	9	e
							10	f

Sun rises. Sun sets. High-water at *London-bridge*.

Day 9 hours and half long.
2) Sun rises E S E. sets W S W.
Day lengthened 2 h. 10 m.
Day breaks at 5 in the morn.
Day 10 hours long.
Twi-light ends at 7 at night.
Day lengthened 2 h. 38 m.
Day 10 hours and half long.
20) Sun rises E. b. S. sets W. b. S.
Day breaks at 4 h. 30 m.
Twi-light ends 7 h. 30 m.
Day 11 hours long.

March hath XXXI days.

☽ Last quarter the 6 day, 33 m. past in the morning
● New Moon the 12 day, 24 m. past 5 in the afternoon
☾ First quarter the 20 day, 40 m. after midnight
● Full Moon the 28 day, 5 m. after 3 in the morning

Thy Blood afresh 'gins to increase again,
Purge, Bath and Bleed, thy Body to maintain.

1	d	David	25 ♎ 45	21	♓	25	♄ 4.37	♊	North-west
2	e	Chad.	8 ♍ 32	22		25	♃ 13. 7	♓	winds, and
3	f	Oculi	21 32	23		25	♂ 1.19	♓	stormy wea-
4	g	Adrian	4 ♐ 45	24		24	♀ 4.16	♉	ther.
5	a	Eusebius	8 13	25		24	☿ 2♑.17	♒	
6	b	Fridiline	1 ♑ 58	26		24	♄ 4.58	♊	
7	c	Perpetua	16 2	27		23	♃ 14.19	♓	Easterly wind
8	d	Cyprian	0 ♒ 24	28		23	♂ 5.14	♓	☐ ♄ ♂ and
9	e	Prudence	15 4	29		22	♀ 6.23	♉	cold frosty
10	f	Lætare	29 53	0	♈	22	☿ 2.30	♓	♂ ♂ ☾ wea-
11	g	Cuniber	14 ♓ 44	1		21	♄ 5.21	♊	ther ♂ ♃ ☾
12	a	Gregory.	29 32	2		20	♃ 15.30	♓	for many
13	b	Theodore	24 ♈ 5	3		20	♂ 9. 9	♓	days ☐ ♄ ☿
14	c	Candide	18 13	4		19	♀ 7.42	♉	
15	d	Longine	21 ♉ 57	5		18	☿ 7.54	♓	♂ ♀ ☾
16	e	Boniface	5 14	6		17	♄ 5.46	♊	Cold Rain
17	f	Judica	18 ♊ 6	7		17	♃ 16.41	♓	♂ ♄ ☾
18	g	Edward	20 37	8		16	♂ 13. 4	♓	Cold West
19	a	Joseph	2 ♋ 50	9		15	♀ 8. 7	♉	or South-
20	b	Cuthert	14 50	10		14	☿ 14.13	♓	west winds.
21	c	Benedict	26 44	11		13	♄ 6.13	♊	☌ ☌ ☿
22	d	Paulinus	8 ♌ 36	12		12	♃ 17.50	♓	*Apertio Pan.*
23	e	Theodore	20 28	13		11	♂ 16.58	♓	☌ ♃ ☿
24	f	Palm-Sund.	2 ♍ 27	14		10	♀ 7.29	♉	Fair and
25	g	Annunc. M.	14 37	15		9	☿ 21.15	♓	warm
26	a	Castor	26 54	16		8	♄ 6.41	♊	☌ ☌ ♃
27	b	Mirtian	9 ♎ 24	17		6	♃ 18.59	♓	Turbulent air
28	c	Maund Th.	22 8	18		5	♂ 20.50	♓	and windy.
29	d	Good Frid.	5 ♍ 5	19		4	♀ 5.53	♉	More mild,
30	e	Guido	18 14	20		3	☿ 28.29	♓	warm, and
31	f	Easter day	1 ♐ 35	21		1			temperate.

MARCH. 1678.

MARCH, *so called à* Marte, *of* Mars *the God of Battle, to whom this Month was dedicated by the Ancient* Romans. *The* Saxons *called it* Lenct-moner, *that is*, Length-Month, *because in this Month the Days begin to exceed the Nights in length; and hence cometh the name of the Feast of* Lent, *because the most part of that Fast falleth in this Month.*

1	6	23	5	37	5	24	Day lengthened 3 h. 40 m.	11 g
2	6	20	5	40	6	12	The Lyons Tail South at 12.	12 a
3	6	18	5	42	7	0		13 b
4	5	16	5	44	7	48	Day 11 hours and half long.	14 c
5	6	14	5	46	8	36	Day breaks 4 h. 12 m.	15 d
6	6	11	5	49	9	24	Twi-light ends 7 h. 44 m.	16 e
7	6	9	5	51	10	12		17 f
8	6	7	5	53	11	0		18 g
9	6	5	5	55	11	48		19 a
10	6	3	5	57	12	36	The Sun rises due East,	20 b
11	6	0	6	0	1	24	Equal Day and Night	21 c
12	5	59	6	1	2	12	And sets due West.	22 d
13	5	57	6	3	3	0		23 e
14	5	56	6	4	3	48		24 f
15	5	54	6	6	4	36	Day breaks 3 ho. 50 min.	25 g
16	5	52	6	8	5	24	Twi-light ends 8 h. 10 m.	26 a
17	5	50	6	10	6	12		27 b
18	5	48	6	12	7	0		28 c
19	5	46	6	14	7	48	Day 12 hours and half long.	29 d
20	5	44	6	16	8	36	First in G. Bears tail S. at 12	30 e
21	5	42	6	18	9	24		31 f
22	5	40	6	20	10	12	Sun due E. a quarter after 6 in the morning.	April 1 g
23	5	39	6	21	11	0		2 a
24	5	37	6	23	11	48	Day lengthened 5 ho. 10 m.	3 b
25	5	34	6	24	12	36	Day breaks 3 h. 25 m.	4 c
26	5	34	6	26	1	24	Twi-light ends 8 h. 35 m.	5 d
27	5	32	5	28	2	12		6 e
28	5	30	5	30	3	0	Day 13 hours long.	7 f
29	5	28	6	32	3	52	The second in great Bears tail	8 g
30	5	26	5	34	4	43	is South at 12.	9 a
31	5	24	5	36	5	33		10 b

Sun rises. Sun sets. High-water at London-bridge.

April hath XXX days.

☽ Last quarter the 4 day, 30 m. past 9 in the morning
● New Moon the 11 day, 30 m. after 4 in the morning
☾ First quarter the 18 day, 8 m. past 8 at night
○ Full Moon the 26 day, 30 m. past 4 in the morning

If thou intend'st to purge, or bath, or bleed,
Of Learn'd Physicians counsel thou hast need.

1	g	Theodore	22	♈	0	15	♎	7	♄ 7.18	♊	Easterly wind
2	a	Mary Egip.	22		50	28		49	♅ 20.20	♓	and cold wet
3	b	Ufpian	23		57	12	♍	42	♂ 25.31	♓	weather ☿
4	c	Ambrofe	24		56	26		41	☿ 2.48	♉	be-
5	d	Vincent	25		54	10	♏	53	♀ 9. 8	♈	gins the
6	e	Eufippus	26		53	25		11	♄ 7.50	♊	month. Very
7	f	Dominica	27		52	9	♐	33	♅ 21.26	♓	Low Sunday
8	g	Dionifius	28		50	23		58	♂ 29.23	♓	uncon- ♂ ♅
9	a	Valerian	29	♉	48	8	♑	17	☿ 29.42	♈	☾ ſtant ☉ ♂
10	b	Eſchillus	10		46	22		25	♀ 18.19	♈	☾
11	c	Leo Pap.	1		45	6	♒	19	♄ 8.24	♊	♂ ☿ ☾ wea-
12	d	July B.	2		43	19		23	♅ 22.31	♓	♂ ♀ ☽ ther
13	e	Zenon	3		41	3	♓	7	♂ 3.15	♈	till the 14 or
14	f	Miſſecord	4		2	16		1	♀ 26.36	♈	☿ ☽ ☾ 15
15	g	Olympia	5		37	28		32	☿ 28.13	♈	days.
16	a	Iſidore	6		36	10	♑	48	♄ 8.58	♊	Sweet and
17	b	Term begins	7		34	22		52	♅ 23.33	♓	pleaſant
18	c	Valerian	8		32	4	♌	46	♂ 7. 5	♈	ſhowers.
19	d	Timothy	9		31	16		37	☿ 24. 1	♈	
20	e	Victor M.	10		28	28		30	☿ 8.42	♉	♂ ☉ ☿
21	f	Jubilate	11		26	10	♒	22	♄ 9.34	♊	Very
22	g	Emanuel	12		24	22		35	♅ 24.34	♓	good Spring
23	a	S. George	13		22	4	♍	28	♂ 10.54	♈	weather.
24	b	Wilfride	14		20	17		37	☿ 22.16	♈	
25	c	S. Mark Evang	15		17	0	♓	34	☿ 19.38	♉	
26	d	Clete	16		15	13		49	♄ 10.11	♊	☾ Eclipſed
27	e	Anaſtaſius	17		13	27		22	♅ 25.33	♓	Fair, warm and
28	f	Canate	18		11	11	♎	9	♂ 14.43	♈	very good
29	g	Sybil	19		9	25		8	☿ 21.30	♈	weather to the
30	a	Erkenwald	20		6	9	♑	16	☿ 0.15	♊	months end.

APRIL, *so called* ab aperiendo *of opening, because in this Month all things are opened in the Flower. So* Ovid, Aprilem memorant ab aperto tempore dictu. *The Ancient* Saxons *called it* Oster-Monat, *of the East-wind that used to blow this Month: And hence the Feast of* Easter *seemeth to take its name, as being for the most part kept in this Month.*

1	5	20	6	40	6	20	Day breaks 2 h. 57 m.	11	c
2	5	18	6	42	7	18	Twilight ends 9 h. 3 m.	12	d
3	5	16	6	44	8	10	Day 13 hours and half long.	13	e
4	5	14	6	46	9	:		14	f
5	5	12	6	48	9	53	*The 15 day keep holy, praise him*	15	g
6	5	10	6	50	10	45	*still,*	16	a
7	5	7	6	53	11	37	*That set us free from Satan, Sin*	17	b
8	5	4	6	56	12	28	*and Hell.*	18	c
9	5	2	6	58	1	20		19	d
10	5	0	7	0	2	11	Day 14 hours long.	20	e
11	4	58	7	2	3	0		21	f
12	4	57	7	3	3	48	Day lengthened 6 h. 32 min.	22	g
13	4	55	7	5	4	36		23	a
14	4	53	7	7	5	24	Day breaks 2 h. 25 m.	24	b
15	4	52	7	8	6	12	Twilight ends 9 h. 35 m.	25	c
16	4	50	7	10	7	0	Sun rises E N E. sets W N W.	26	d
17	4	48	7	12	7	48		27	e
18	4	46	7	14	8	36		28	f
19	4	44	7	16	9	24	Day 14 hours and half long.	29	g
20	4	42	7	18	10	12		30	a
21	4	40	7	20	11	0		May	
22	4	39	7	21	11	48	The 7 Stars rise Cosmically.	1	c
23	4	37	7	23	12	36		2	d
24	4	35	7	25	1	24	Day breaks 1 h. 51 m.	3	e
25	4	33	7	27	2	12	Twilight ends 10 h. 9 m.	4	f
26	4	31	7	29	3	0		5	g
27	4	29	7	31	3	48	Day 15 hours long.	6	a
28	4	27	7	33	4	36	The North Balance S. at 12.	7	b
29	4	25	7	35	5	24		8	c
30	4	23	7	37	6	12	Day lengthened 7 h. 40 m.	9	d
								10	e

Sun fets. Sun rises. High-water at London-bridge.

May hath XXXI days.

☽ Last quarter the 3 day, at 12 at noon
New Moon the 10 day, 50 m. past 2 in the afternoon.
First quarter the 18 day, 30 m. pa6 1 afternoon
Full Moon the 26 day, 11 m. after 2 in the morning

Sweet morning walks and Sage the minds may please,
Of those whose Bodies are in health and ease.

1	b	S. Ph. & Jac.	21	♉	4	23	♍	27	♄ 1 48 ♊	Westerly
2	c	Athanasius	22		2	7	♒	39	♃ 26.29 ♓	wind, and va-
3	d	Inven. Cru.	22		59	21		50	♂ 18.30 ♈	riable weather
4	e	Fest. Coron.	23		57	4	♓	57	♀ 21.48 ♈	begins the
5	f	Rogat. Sund.	24		55	19		51	☿ 10.13 ♊	month.
6	g	Joh. Por La.	25		52	3		59	♄ 11.26 ♊	☌ ♄♀ Fair
7	a	John of B.	26		50	17	♈	49	♃ 27.24 ♓	☌ ♃ ☾ white
8	b	Ap. S. Mich.	27		47	1	♉	28	♂ 22.16 ♈	☌ ♂ ☾ Clo.
9	c	Ascension d.	28		45	14		57	♀ 22.56 ♈	☌ ♀ ☾
10	d	Gordian	29		42	28		13	☿ 19. 4 ♊	☌ ☌ ♀ 8 da.
11	e	Mamere	0	♊	40	11	♊	13	♄ 12. 5 ♊	☌ ♄ ☾ thun-
12	f	Exaudi	1		37	23		58	♃ 28.15 ♓	☌ ♀ ☾ der,
13	g	Term ends	2		35	6	♋	27	♂ 26. 1 ♈	rain, and
14	a	Isidore	3		32	18		43	♀ 24.51 ♈	cool air.
15	b	Brandon	4		30	0	♌	46	☿ 26.36 ♊	
16	c	Peregrine	5		27	12		42	♄ 12.43 ♊	
17	d	Dunstan	6		24	25		35	♃ 29. 4 ♓	☌ ♃ ☿
18	e	Potent	7		22	6	♍	27	♂ 29.44 ♈	Great wind
19	f	Whitsunday	8		19	18		22	♀ 27.25 ♈	and thunder.
20	g	Ellen Reg.	9		16	0	♎	9	☿ 2.16 ♉	
21	a	Julian V.	10		14	12		51	♄ 13.23 ♊	
22	b	Desiderius	11		11	25		30	♃ 25.50 ♓	
23	c	Ember W.	12		8	8	♏	33	♂ 3.26 ♉	☍ ♂ ☾
24	d	Adelm	13		5	21		59	♀ 0.31 ♉	☌ ☉ ♄
25	e	Urban	14		3	5	♐	49	☿ 7.26 ♋	*Apertio Por.*
26	f	Trinity Sun.	15		0	20		2	♄ 14. 2 ♊	
27	g	Coronis M.	15		57	4	♑	8	♃ 0.31 ♈	
28	a	German	16		54	19		4	♀ 7. 7 ♉	North-west
29	b	K. Ch. II. Nat.	17		51	3	♒	41	☿ 4. 3 ♉	wind, and
30	c	Corpus Chri.	18		49	18		15	♀ 10.26 ♋	some rain.
31	d	Term begins	19		46	2	♓	38		

MAY 1678.

May, is so called of the goddess *Maja* the Mother of *Mercury*, because the Heathens used to sacrifice to her this month. The *Saxons* called it *Trimilk*, because in this month they used to milk their Kine three times every day.

1	7	0	4	22	7	38	*Day breaks 8 m. aft. 1 in the morn.*	11	c
2	7	48	4	21	7	39	*Twylight ends 52 m. aft. 10. at ni.*	12	t
3	8	36	4	20	7	49	*The North Crown South at 12*	13	g
4	9	24	4	19	7	41	*The Hinder Guard South at 12*	14	a
F	10	12	4	17	7	43	*Serpents neck S. at 12*	15	B
6	11	0	4	15	7	45	Day 15 hours and a half long.	16	c
7	11	48	4	13	7	47		17	d
8	12	36	4	12	7	48		18	e
9	1	24	4	11	7	49	*The Sun is just East at 9 m. after 7*	19	f
10	2	12	4	10	7	50	*in the morn and West 51 m. after 4*	20	g
11	3	0	4	9	7	51	*Sun rises N E by E. & sets N W 6 W*	21	a
F	3	48	4	7	7	53		22	B
13	4	36	4	6	7	54		23	c
14	5	24	4	5	7	55		24	d
15	6	12	4	3	7	57	*Continual day and no dark night*	25	e
16	7	0	4	2	7	58	*from May 12 to July 12*	26	f
17	7	48	4	1	7	59	Dayes 16 hours long.	27	g
18	8	36	3	59	8	1		28	a
F	9	24	3	58	8	2		29	B
20	10	12	3	56	8	4		30	c
21	11	0	3	55	8	5	*The Bulls eye rises Cosmically.*	31	d
22	11	48	3	54	8	6	Day lengthened 9 h. 8 m.	Jun	e
23	12	36	3	53	8	7		2	f
24	1	24	3	53	8	7		3	g
25	2	12	3	52	8	8		4	a
F	3	0	3	52	8	8	*Hercules head south at 12.*	5	B
27	3	52	3	52	8	8		6	c
28	4	43	3	51	8	9		7	d
29	5	35	3	51	8	9	King Charls the II. born, 1630.	8	e
30	6	26	3	50	8	10	and restored, 1660	9	f
31	7	18	3	50	8	10	Day 16 hours 30 m. long.	10	g

High water at London bridge
Sun Rises
Sun Sets

June hath XXX. dayes.

☽ Last quarter the 1 day, 22 min. after 6 at night
☾ New Moon the 9 day, 25 m. after 3 in the morning.
☽ First quarter the 17 day, 44 m. after 5 in the morn.
☉ Full moon the 24 day, 40 min. after 10. beforenoon.

Drinks new or sweet, hot Spices I warn thee flee
The sports of Venus, *and Phlebotomee.*

1	e	Nichodem	20	♊	43	16	♓	49	♄	14	49	♊	*White disper*
2	f	1 aft. Tri	21	40	0	♈	43	♃	1	18	♈	☌ ♃ ☾ *sed*
3	g	Erasmus	22	37	14		26	♂	11	30	♉	*clouds and*
4	a	Petrocle	23	34	27		53	♀	8	46	♉	*some rain*
5	b	Boniface	24	31	11	♉	8	♀	11	34	♋	☌ ♂ ☾
6	c	Claudius	25	29	24		14	♄	15	28	♊	☌ ♀ ☾
7	d	Paul Eph.	26	26	7	♊	7	♃	1	53	♈	*cold*
8	e	Medard	27	23	19		49	♂	15	7	♉	☌ ♄ ☾ *mor-*
9	f	2 aft. Trin.	28	20	2	♋	21	♀	13	2	♉	*nings and*
10	g	Onaphrius	29	17	14		41	♀	10	29	♋	☌ ♀ ☾ *hoary*
11	a	S. Barnabas	0	♋	14	26		53	♄	16	6	♊	*frosts.*
12	b	Basil Con.	1	11	8	♌	55	♃	2	24	♈	
13	c	Anthony	2	8	20		53	♂	18	43	♉	□ ♃ ☉
14	d	Basil. B.	3	5	2	♍	45	♀	17	32	♉	*fair but wind*
15	e	Vitus	4	2	14		37	♀	8	2	♋	*or thunder*
16	f	3 aft. Trin.	5	59	26		33	♄	16	44	♊	
17	g	Botolph	6	56	8	♎	37	♃	2	50	♈	☌ ☉ ♀
18	a	Marceline	7	53	20		54	♂	22	17	♉	☌ ♀ ☌
19	b	Term ends	7	50	3	♏	30	♀	22	14	♉	♀ greatest
20	c	Silverius	8	47	16		30	♀	5	5	♋	dist. from ☉
21	d	Walburg	9	44	29		59	♄	17	22	♊	*rain,*
22	e	Albany	10	42	13	♐	56	♃	3	13	♈	
23	f	4 aft. Trin.	11	39	28		17	♂	25	49	♉	□ ♃ ♀
24	g	S. Joh. Bap.	12	38	13	♑	5	♀	27	7	♉	*high winds*
25	a	Transf. Eli.	13	33	28		6	♀	2	50	♋	
26	b	Joh. & Pau.	14	30	13	♒	9	♄	18	0	♊	
27	c	7 Sleepers	15	27	28		7	♃	3	31	♈	☾ Perig.
28	d	Leo Pap.	16	24	12	♓	48	♂	20	20	♉	*fair and ve-*
29	e	S. Pet. Ap.	17	21	27		11	♀	2	8	♊	*ry good sum-*
30	f	5 aft. Trin.	18	18	11	♈	11	♀	2	18	♋	*mer weather*

June, *Junius* taketh the name of *Junius Brutus*, the Author of the *Romans* Liberty, who was made *Consul* this Month. The *Saxons* called this Month *Wyd-monat*, of *Weyden* to feed, because they used this Month to drive their Cattle into the Pastures to feed.

1	8	1-	3	50	8	10	Day lengthened 8 hours 46 m.	11 a
F	9	2	3	49	8	11		12 b
3	9	53	3	49	8	11		13 c
4	10	45	3	49	8	11		14 d
5	11	35	3	48	8	12		15 e
6	12	28	3	48	8	12		16 f
7	1	20	3	48	8	12	*Dragons head* ☊ at 12.	17 g
8	2	11	3	47	8	13		18 a
F	3	-	3	47	8	13	Day lengthened 8 hours 52 m.	19 b
10	3	48	3	47	8	13	Longest day 16 hours 26 m.	20 c
11	4	36	3	47	8	13	*Upon which day, the* ☉ *will be upon the just East point, at 20 min. after 8 in the morn, and upon the west point, at 40 min after 3 in the afternoon, and the* ☉ *on the same 12 day will rise 40 degr. from the East towards the North, and will set 40 deg. from the West towards the North that is the sun will rise N. E. half a point Easterly, and set N. West half a point westerly.*	21 d
12	5	24	3	47	8	13		22 e
13	6	12	3	47	8	13		23 f
14	7	03	3	47	8	13		24 g
15	7	48	3	48	8	12		25 a
F	8	36	3	48	8	11		26 b
17	9	24	3	48	8	12		27 c
18	10	12	3	49	8	11		28 d
19	11	03	3	49	8	11		29 e
20	11	48	3	50	8	10		30 f
21	12	36	3	50	8	10		
22	1	24	3	51	8	9		1 g
F	2	12	3	51	8	9	Day 16 hours 28 m. long.	2 a
24	3	03	3	52	8	8		3 b
25	3	52	3	52	8	8		4 c
26	4	43	3	52	8	8		5 d
27	5	33	3	53	8	7		6 e
28	6	26	3	54	8	6	Day shortned 12 min.	7 f
29	7	18	3	55	8	5		8 g
F	8	10	3	56	8	4		9 a
							Swans bill south at 12.	10

☽ Last quarter the 1 day, 35 min. after 12 at night.
● New moon the 8. day, 8 min. before 1 in the morning.
☾ First quarter the 16 day, 15 min. after 6 at night.
○ Full moon the 23 day, at 12 at noon.
☽ Last quarter 30 day, 25 min. past 5. in the morn.

Strong Drinks and new refuse, they be thy Foe,
To bath in Rivers cool this July *go.*

1	g	Oct. John	19	♋	15	24	♈	47	♄	18	35	♊	*Very hot*
2	a	Visit. Mary	20		12	8	♉	4	♃	3	44	♈	*with some*
3	b	Cornelius	21		9	21		6	♂	2	48	♊	☿ ☌ ☾
4	c	Ulric	22		7	3	♊	22	☾	7	17	♊	♂ ♂ ☾
5	d	Zo Virg.	23		4	16		38	☿	3	57	♋	♂ ♄ ☾
6	e	Hector	24		1	28		53	♄	14	10	♊	♂ ☿ ☾
7	f	6 att. Trin.	24		58	11	♋	11	♃	3	52	♈	*thunder-*
8	g	Chilian	25		55	23		21	♂	6	15	♊	*claps.*
9	a	Cyril B.	26		52	5	♌	27	☽	12	32	♊	
10	b	7 Brethren	27		50	17		26	☿	7	49	♋	*far greater*
11	c	Pius	28		47	29		21	♄	19	44	♊	*distil from* ☉
12	d	Henry	29		44	11	♍	14	♃	3	57	♈	*some shew-*
13	e	Margaret	0	♌	41	23		8	♂	9	40	♊	*e s.*
14	f	7 att. Trin.	1		38	5	♎	5	☿	17	54	♊	♃ Station.
15	g	Swithin	2		36	17		9	☿	23	56	♋	
16	a	Osmund	3		33	29		24	♄	20	17	♊	☽ ☍ ☿
17	b	Kenelm	4		30	11	♏	57	♃	3	55	♈	*sudden and*
18	c	Rosine	5		28	24		52	♂	13	3	♊	*sharp show-*
19	d	Symphorian	6		25	8	♐	14	☿	23	20	♊	*ers*
20	e	Margaret	7		22	21		7	☿	21	59	♋	
21	f	8 att. Trin	8		20	6	♑	29	♄	20	48	♊	
22	g	Mary Mag.	9		17	21		20	♃	3	49	♈	*fair and*
23	a	Apoline	10		14	6	♒	31	♂	16	24	♊	*warm.*
24	b	Christin	11		12	21		49	☿	28	51	♊	*hot*
25	c	S. James A.	12		9	7	♓	5	☿	1	23	♌	
26	d	Anne	13		7	22		7	♄	21	18	♊	
27	e	7 Sleepers	14		4	6	♈	45	♃	3	38	♈	♂ ♃ ☾
28	f	9 att. Trin.	15		2	20		56	♂	19	42	♊	☾ ♃ ☿
29	g	Beatrice	15		59	4	♉	39	☽	4	26	♋	*very fair*
30	a	Abdon	16		57	17		56	☿	11	33	♌	*and pleasant*
31	b	German	17		54	0	♊	52					

July, *Julius* so called of *Julius Cæsar*, who was born in this moneth, for before it was called *Quintilis*, as being the 5. month from *March* from whence the ancient Romans used to begin the order of their Months. The *Saxons* called this month *Heumonat*, or *Heymonat* because of their Hey Harvest this month.

1	9	23	3	57	8	3		11 c
2	9	41	3	57	8	3	*Orions Girdle rises Cosmically*	12 d
3	10	45	3	58	8	2		13 e
4	11	37	3	59	8	1	*The Scorpions Thigh, and Vultu-*	14 f
5	12	28	4	0	8	0	Day 16 hours long.	15 g
6	1	20	4	2	7	58	*res heart are S. at midn.*	16 a
7	2	11	4	3	7	57		17 b
8	3	0	4	5	7	55		18 c
9	3	48	4	6	7	54	Day shortened 38 m.	19 d
10	4	36	4	8	7	52		20 e
11	5	24	4	9	7	51		21 f
12	6	12	4	11	7	49	☉ *Rises NE by E. Sets N by W.*	22 g
13	7	0	4	12	7	48	*and is East 9 min. after 7, and*	23 A
14	7	48	4	13	7	47	*West 51 min. after 4.*	24 b
15	8	36	4	14	7	46		25 c
16	9	24	4	15	7	45	Day 15 hours and half long.	26 d
17	10	12	4	16	7	44		27 e
18	11	0	4	17	7	43	*The Swans Tail, and the Dolphins*	28 f
19	11	48	4	18	7	42	*Head both South at 12*	29 g
20	12	36	4	20	7	40	*Day breaks 45 m. after midn.*	30 a
21	1	24	4	21	7	39		31 b
22	2	11	4	23	7	37	*Twylight ends a quarter after 11*	Aug 1 c
23	3	0	4	25	7	35		2 d
24	3	48	4	27	7	33	Day shortened 1 hour 20 m.	3 e
25	4	36	4	29	7	31		4 f
26	5	24	4	30	7	30	Day 15 hours long.	5 g
27	6	12	4	32	7	28		6 a
28	7	0	4	34	7	26		7 B
29	7	48	4	36	7	24		8 c
30	8	36	4	37	7	23	*The great Dog rises cosmically.*	9 d
31	9	24	4	38	7	22		10 e

New moon the 7 day, half an hour past 8 morn.
First quarter 15 day, at 9 beforenoon.
Full moon the 22 day, 20 min. after 1 in the morn.
Last quarter the 28 day at 10 at night.

Take heed of Surfeits, inflaming meats and spices
Physick forbear, be wise in exercises.

1	c	Lammas	18	♌	52	13	♍	31	♄	21	52	♍	*Variable*
2	d	Stephen	19		49	25		55	♃	3	18	♈	☌ ♄ ☾ *and*
3	e	Dominicus	20		47	8	♎	9	♂	23	38	♍	☌ ☌ ☾ *in-*
4	f	10 aft. Trin.	21		45	20		17	☿	11	14	♎	☌ ☌ ☾ *con-*
5	g	Martin	22		42	2	♏	18	☉	23	48	♏	☍ ☿ *a da.*
6	a	Eugenius	23		40	14		17	♄	22	18	♍	✶ ☌ ☿ *fair*
7	b	Donatus	24		38	16		13	♃	2	57	♈	☌ ☿ ☾ *we-*
8	c	Cyriac.	25		35	8	♐	8	♂	26	51	♍	*ther till*
9	d	Roman	26		33	20		4	☿	16	57	♎	*the 14 or*
10	e	Laurance	27		31	2	♑	1	☿	3	55	♐	*15 days*
11	f	11 aft. Trin.	28		29	14		2	♄	22	42	♍	
12	g	Clare	29		27	26		10	♃	2	31	♈	
13	a	Hypolite	9	♍	26	8	♐	29	♂	0	2	♎	☾ ♌
14	b	Eusebius	1		23	21		3	☿	22	43	♎	
15	c	Assump Ma.	2		20	3	♑	55	☿	12	50	♐	□ ♃ ♂
16	d	Roach	3		18	17		10	♄	23	5	♍	
17	e	Oct. Lawr.	4		16	0	♒	54	♃	2	3	♈	*very hot*
18	f	12 aft. Trin.	5		14	15		8	♂	3	11	♎	*thunder and*
19	g	Magnus	6		12	29		4	☿	28	33	♎	*lightning*
20	a	Lewis B.	7		11	14	♒	53	☿	21	31	♐	
21	b	Bernard	8		9	29		5	♄	23	23	♍	□ ♄ ☿
22	c	Symphro.	9		7	15	♓	28	♃	1	29	♈	*showers*
23	d	Zacheus	10		5	0	♈	3	♂	6	17	♎	☌ ♃ ☾
24	e	S. Barthol.	11		3	15		27	☿	4	25	♏	*flying clouds*
25	f	13 aft. Tri.	12		2	29		50	☿	29	40	♐	
26	g	Severine	13		0	13	♉	44	♄	23	42	♍	☍ ♃ ☿
27	a	Dog da. end	13		58	27		8	♃	0	54	♈	
28	b	Augustin.	14		57	10	♊	7	♂	0	20	♎	*great wind.*
29	c	Ioh decol.	15		55	22		45	☿	10	20	♏	
30	d	Felix	16		53	5	♋	1	☿	7	20	♐	
31	e	Paulinus	17		52	17		15					

AVGVST 1678.

August taketh the name of *Augustus Cæsar*, who in this month begun his Consulship, brought three Triumphs into the City, and put an end to the Civil Wars; before this time it was called *Sextilis*, as being the sixth month from *March*. The *Saxons* called it *Arn-monat*, or Harvest Month.

1	10	12	4	39	7	21		11	f
2	11	0	4	40	7	20	*Pegasus Mouth south at 12*	12	g
3	11	48	4	43	7	17		13	a
F	12	36	4	44	7	16	Day 14 hours and a half long.	14	B
5	1	24	4	46	7	14	*Day breaks* 25 m. aft. 2.	15	c
6	2	12	4	48	7	12	*Twy light ends* 45 m. aft. 9	16	d
7	3	0	4	50	7	10	☉ *rises E N E, sets W N W.*	17	e
8	3	48	4	52	7	8		18	f
9	4	36	4	54	7	6	Day shortened 2 h. 14 min.	19	g
10	5	24	4	56	7	4		20	a
F	6	12	4	58	7	2		21	B
12	7	0	4	59	7	1	Day 14 hours long	22	c
13	7	48	5	1	6	59		23	d
14	8	36	5	3	6	57		24	e
15	9	24	5	5	6	55	*Day breaks* 46 m. aft. 2.	25	f
16	10	12	5	6	6	54	*Twy-light ends* 13 m. aft. 9.	26	g
17	11	0	5	8	6	52		27	a
F	11	48	5	10	6	50		28	B
19	12	36	5	12	6	48	*The* ☉ *will be due East 32 m. after*	29	c
20	1	24	5	14	6	46	Day 13 hours and half long	30	d
21	2	12	5	16	6	44	6. *and due West 28 m. after 6*	31	e
22	3	0	5	18	6	42		Sep	
23	3	48	5	20	6	40	*Pegasus Shoulder south at 12.*	2	g
24	4	36	5	22	6	38	Day shortned 3 hours 10 min.	3	a
F	5	24	5	24	6	36	☉ *rises E. by N. sets West by N.*	4	B
26	6	12	5	26	6	34		5	c
27	7	0	5	28	6	32	Day 13 hours long.	6	d
28	7	48	5	30	6	30		7	e
29	8	36	5	31	6	29	*The* ☉ *is due East 16 m. after*	8	f
30	9	24	5	33	6	27	6 *and West 44 m. after 5*	9	g
31	10	12	5	35	6	25		10	a

High water at London Bridge

Sun Rise

Sun Set

New moon the 6 day, a quarter before 1 in the morn.
First quarter 13 day, half an hour past 7 at night.
Full moon the 20 day, 8 min. before 10 in the forenoon.
Last quarter the 27 day, 3 quarters past 1 afternoon.

Now Phyſick may be us'd, bleed, bath and purge,
Or whatſoever neceſſity doth urge.

1	♍	14 aft. Trin	18	♎	50	29	♋	15	♄	24	1	♐	*Cloudy*
2	♎	Lond. burnt	19	49	11	♌	13	♅	0	8	♈	☿ ☽ ☾
3	♎	anno 1666	20	47	23		7	☿	12	56	♋	□ ♂ ♆
4	♏	Theodoſius	21	46	5	♍	1	♂	17	29	♌	*great*
5	♏	Martine	22	45	16		57	☽	15	52	♎	*winds*
6	♏	Eugenius	23	43	28		58	♄	24	12	♊	□ ☉ ♄
7	♐	Gorgon	24	42	11	♎	3	♅	29	29	♓	*rain and*
8	♐	15 aft. Trin.	25	41	23		13	♂	15	51	♋	♂ ☿ ☾
9	♑	Sylvius	26	39	5	♍	33	☿	31	29	♌	*dark air*
10	♑	Protho	27	38	18		2	☽	22	27	♎	
11	♑	Burchan	28	37	0	♐	44	♄	24	22	♊	♂ ☉ ♅
12	♒	Guidon	29	36	13		42	♅	28	49	♓	*north weſt*
13	♒	Amancy	0	♎	35	26		57	♂	18	45	♋	*wind and*
14	♒	Exal. Cru.	1	34	10	♑	45	☿	29	31	♌	*fair.*
15	♓	16 aft. Trin.	2	33	24		45	☽	28	18	♎	
16	♓	Edith	3	32	8	♒	59	♄	24	29	♊	
17	♓	Lambert	4	31	23		43	♅	28	9	♓	*gentle*
18	♈	Ember We.	5	30	8	♓	42	♂	21	33	♋	*gales of*
19	♈	January	6	29	23		47	☿	5	30	♍	♂ ♅ ☾
20	♉	Euſtac us	7	28	8	♈	48	☽	3	19	♎	*wind and*
21	♉	S. Matthew	8	27	23		37	♄	24	33	♊	*fair wea-*
22	♉	17 aft. Trin.	9	27	8	♉	2	♅	27	30	♓	*ther.*
23	♊	Tecle V.	10	26	22		2	♂	24	18	♋	
24	♊	Andoche	11	25	5	♊	36	☿	11	41	♍	*high winds*
25	♊	Cleophas	12	25	18		42	☽	7	2	♍	♂ ♄ ☾
26	♋	Cyprian	13	24	1	♋	24	♄	24	35	♊	♂ ♅ ♂
27	♋	Coſmine	14	23	13		47	♅	20	52	♈	♂ ☾
28	♋	Exupera	15	23	25		55	♂	26	58	♋	*concludes*
29	♌	S. Michael	16	22	7	♌	55	☿	17	48	♌	*the month.*
30	♌	Hierome	17	22	19		48	☽	8	40	♍	

September, so called as being the seventh Month inclusive from *March*. The *Saxons* called this Month *Gorst-monat*, that is, Barley month, of their Barley harvest in this Moneth.

	High-waters at London Bridge		Sun Rises		Sun Sets			
1	11	05	37	6	23	*Day breaks* 42. m. af. 3 morn.	1	B
2	11	48	5	40	6	20	*Twylight ends* 18 m. af. 8 *at* nig.	12	c
3	12	36	5	42	6	18		13	d
4	1	24	5	44	6	16	Day 12 hours and a half long.	14	e
5	2	12	5	45	6	15		15	f
6	3	0	5	47	6	13	Day shortned 4 hours,	16	g
7	3	53	5	49	6	11		17	a
8	4	45	5	50	6	10	*Andromeda's Head, and Cassiopeas*	18	B
9	5	37	5	51	6	9	*Chair both S. at* 12.	19	c
10	6	26	5	53	6	7		20	d
11	7	18	5	54	6	5		21	e
12	8	10	5	58	6	2	*Sun rises exactly East, and*	22	f
13	9	2	6	0	6	0	Equal day and night 12 hours.	23	g
14	9	52	6	2	5	58	*Sun sets due West*	24	a
15	10	43	6	4	5	56		25	B
16	11	35	6	6	5	54	*Day breaks* 8 m. aft. 4 *in the* mor.	26	c
17	12	26	6	8	5	52	*Twylight ends* 52 m. af. 7 *at* nig.	27	d
18	1	18	6	10	5	50	Day shortned 4 hour and half.	28	e
19	2	10	6	12	5	48		29	f
20	3	06	6	14	5	46		30	g
21	3	48	6	16	5	44	Day 11 hours and half long.	31	a
22	4	36	6	18	5	42		1	B
23	5	24	6	20	5	40		2	c
24	6	12	6	22	5	38	*Day breaks* 30 m. af 4 *in the* mor.	3	d
25	7	06	6	24	5	36	*Twylight ends* 30 m. af. 7 *at* nig.	4	e
26	7	48	6	26	5	34	*Andromeda's Head South at* 12.	5	f
27	8	36	6	28	5	32		6	g
28	9	24	6	30	5	30	Day 11 hours long.	7	a
29	10	12	9	32	5	28		8	B
30	11	06		34	5	26	*Cassiopeas Knee South at* 12.	9	c

October hath XXXI. dayes.

● New Moon the 5 day, 5 min. past 5 in the morn.
☾ First quarter 13 day, 4 min. after 4 in the morn.
● Full moon the 19 day, 8 min. past 8 at night.
☽ Last quarter the 27 day, 10 min, before 3 in the morn.

Now Physicks help do not refuse
If thou it want, and carefully canst use.

1	a	Remigius	18	♎	21	1	♍	40	♄	24	33	♊	*The month*
2	b	Leodgar	19		21	13		35	♃	26	17	♓	*begins with*
3	c	Candide	20		21	25		32	♂	29	33	♋	☌ ☿ ☾
4	d	Francis	21		20	7	♎	39	♀	23	57	♍	□ ♄ ♀
5	e	Constance	22		2[illegible]	19		56	☿	7	22	♏	☉ Eclipsed
6	f	19 aft. Trin.	23		2[illegible]	2	♏	17	♄	24	29	♊	☌ ☿ ☾
7	g	Dionisius	24		20	14		54	♃	25	45	♓	*cool air*
8	a	Victor	25		19	27		41	♂	2	5	♌	*dispersed*
9	b	N. casius	26		19	10	♐	43	♀	0	7	♎	*clouds bringe*
10	c	Willfride	27		19	23		55	☿	2	41	♏	□ ☌ ☿ *ing*
11	d	Transf. Edw	28		19	7	♑	21	♄	24	22	♊	*rain.*
12	e	Wilfride	29		19	21		2	♃	25	16	♓	☌ ☉ ☿
13	f	20 aft. Trin.	0	♏	19	4	♒	57	♂	4	30	♌	☌ ♂ ☾
14	g	Mich in Mo.	1		19	19		6	♀	6	19	♎	*Westerly*
15	a	Wolstan.	2		19	3	♓	29	☿	26	25	♎	*winds with*
16	b	Tra. Ethel	3		19	18		2	♄	24	12	♊	*some rain*
17	c	Florence	4		19	2	♈	41	♃	24	52	♓	☌ ♃ ☾
18	d	S. Luke Ev.	5		19	17		17	♂	6	49	♌	*fair and*
19	e	Ptolomy	6		20	1	♉	46	♀	12	32	♎	*pleasant*
20	f	21 aft. Trin.	7		20	16		6	☿	22	54	♎	□ ☉ ♂
21	g		8		20	0	♊	1	♄	24	0	♊	*dry winds*
22	a	M. Solom.	9		20	13		33	♃	24	32	♓	
23	b	Term begins	10		21	26		43	♂	9	1	♌	☌ ♄ ☾
24	c	Maglore	11		21	9	♋	29	♀	18	45	♎	
25	d	Crispine	12		21	21		57	☿	24	2	♎	*now expect*
26	e	Evaristus	13		22	4	♌	8	♄	23	46	♊	*some rain*
27	f	22 aft. Trin	14		22	16		7	♃	24	17	♓	☌ ♂ ☾ *and*
28	g	S. Sim. & Ju.	15		23	27		59	♂	11	6	♌	
29	a	Narcissus	16		23	9	♍	51	♀	25	1	♎	*dark and*
30	b	Germane	17		24	21		44	☿	28	41	♎	*cloudy wea-*
31	c	Quintine	18		24	3	♎	43					*ther.*

OCTOBER 1678.

October so called, as being the eighth Month from *March*. The *Saxons* called it *Win-monat*, that is, *Winen-Month*, because this Month they had Wines brought them out of other Countries.

1	11	48	6	36	5	24	*Day breaks at 47 m. aft. 4 Morn.*	11	d
2	12	36	6	38	5	22	*Twy-light ends 13 m. aft. 7 N.*	12	e
3	1	24	6	40	5	20		13	f
4	2	12	6	42	5	18	Day shortned 5 h. 50 min.	14	g
5	3	0	6	44	5	16		15	a
6	3	48	6	46	5	14	Day 10 hours and half long.	16	b
7	4	36	6	48	5	12		17	c
8	5	24	6	50	5	10		18	d
9	6	12	6	52	5	8	*The Rams horn South at 12*	19	e
10	7	0	6	54	5	6		20	f
11	7	48	6	56	5	4	Day shortned 5 hours 18 min.	21	g
12	8	36	6	58	5	2		22	a
13	9	24	7	0	5	0	*The Rams head South at 12.*	23	b
14	10	12	7	2	4	58	Day 10 hours long.	24	c
15	11	0	7	4	4	56		25	d
16	11	48	7	6	4	54	*Day breaks 3 m. aft. 5 Morn.*	26	e
17	12	36	7	8	4	52	*Twy light ends 55 m. after 6 N.*	27	f
18	1	24	7	10	4	50		28	g
19	2	12	7	12	4	48	Day shortned 6 hours 46 min.	29	a
20	3	0	7	14	4	46	*Sun rises E. S. E. sets W. S. W.*	30	b
21	3	48	7	16	4	44		31	c
22	4	36	7	19	4	43	Day 9 hours and a half long.	Nov	
23	5	24	7	19	4	41		2	e
24	6	12	7	20	4	40		3	f
25	7	0	7	22	4	38		4	g
26	7	48	7	24	4	36	*The 7 Stars rise Achronically*	5	a
27	8	36	7	26	4	34	Day shortned 7 h. and a quarter	6	b
28	9	24	7	28	4	32	*The Whales jaw and Medusaes*	7	c
29	10	12	7	30	4	30	*head are both S. at 12.*	8	d
30	11	0	7	32	4	28	Day 9 hours long.	9	e
31	11	48	7	32	4	27	*Perseus right side S. at 12.*	0	f

High water at London Bridge

Sun Rises

Sun Sets

New moon the 4 day, at 9 in the morning.
First Quarter 11 day, 10 min. past 11 before noon.
Full moon the 18 day, 6 m. before 9 in the morn.
Last quarter the 26 day, half an hour past 5 morn.

Chuse hot and wholesome drinks and meats likewise.
Avoid hot Baths, use honest exercise.

1	b	All Saints	19	♍	23	14	♎	52	♄	23	25	♊	South west
2	c	All Souls	20		26	28		15	♅	24	5	♓	☽ ☿ ☾
3	d	23 aft. Tri.	21		26	10	♍	54	♂	13	24	♌	winds
4	e	Amantius	22		27	23		48	☿	2	30	♍	☾ ☍ ipf.
5	f	Powd. Plot	23		28	6	♐	59	☿	6	39	♍	☾ ☌ ♅
6	g	Leonard	24		28	20		21	♄	23	6	♎	producing
7	a	Woolfride	25		29	4	♑	4	♅	24	1	♓	☍ ♄ ☾
8	b	Claudius	26		30	17		52	♂	15	9	♌	snow or
9	c	Theodore	27		31	1	♒	52	☿	8	46	♍	rain:
10	d	24 aft. Tri.	28		32	15		51	☿	14	7	♍	windy
11	e	Martine	29		32	29		58	♄	22	43	♎	□ ♂ ☿
12	f	Patern	0	♐	33	14	♓	8	♅	24	2	♓	fairer
13	g	Brice	1		34	28		18	♂	16	43	♌	☍ ♅ ☾
14	a	Frederick	2		35	12	♈	29	☿	15	2	♎	but windy
15	b	Macure.	3		36	26		36	☿	21	51	♍	
16	c	Edmund	4		37	10	♉	37	♄	22	22	♎	□ ♂ ☿
17	d	25 aft Tri.	5		38	21		30	♅	24	9	♓	☽ mission of
18	e	Galasius	6		39	8	♊	8	♂	18	6	♌	cold.
19	f	Elizabeth	7		40	21		31	☿	21	19	♎	☍ ♄ ☾ but
20	g	Edmond K.	8		41	4	♋	36	☿	29	39	♍	some rain
21	a	Mary	9		42	17		22	♄	21	59	♊	△ ♅ ☿
22	b	Cicile.	10		43	29		50	♅	24	20	♓	
23	c	Clement	11		44	12	♌	3	♂	19	1	♌	
24	d	26 aft. Tri.	12		46	24		3	☿	27	36	♎	☍ ♂ ☾
25	e	Katherine	13		47	5	♍	55	☿	7	27	♐	cold air,
26	f	Line	14		48	17		45	♄	21	34	♊	but fair.
27	g	Agricola	15		49	29		36	♅	24	37	♓	
28	a	Term ends	16		50	11	♎	33	♂	20	10	♌	
29	b	Saturn	17		51	23		43	☿	3	53	♐	hard frost
30	c	S. Andr. Ap.	18		53	6	♍	9	☿	15	16	♐	☾ ☍

November So called as being the ninth Moneth from *March*. The *Saxons* called it *Wint-monat*, that is *Winde month*, because of the blustring winds which usualy rise in this month.

1	12	36	7	34	4	26	Day breaks 37 m. af. 5 in the mor.	11	g
2	1	24	7	36	4	24	Twylight ends 23 m. af. 6 at night	12	a
F	2	12	7	38	4	22	Day shortened 1 h. 42 m.	13	b
4	3	0	7	39	4	21		14	c
5	3	52	7	40	4	20	The great Dog sets cosmically	15	d
6	4	45	7	42	4	18		16	e
7	5	35	7	43	4	17	Perseus Foot South at 12.	17	f
8	6	26	7	45	4	15	Day 8 hours and a half long.	18	g
9	7	18	7	46	4	14		19	a
F	8	10	7	48	4	12	Day shortned 8. h. 2. min.	20	b
11	9	2	7	49	4	11	☉ Rises S. E. by E. & sets S. W. by W	21	c
12	9	53	7	50	4	10	The seven Stars sets Cosmically,	22	d
13	10	45	7	52	4	8	The Buls eye sets Cosmically.	23	e
14	11	37	7	53	4	7	No absolute day but all Twylight.	24	f
15	12	28	7	55	4	5	Twylight ends 13 m. af. 6 at Ni.	25	g
16	1	20	7	56	4	4		26	a
F	2	11	7	57	4	3		27	b
18	3	0	7	58	4	2		28	c
19	3	48	7	59	4	1		29	d
20	4	36	8	0	4	0	Day 8 hours long	30	e
21	5	24	8	1	3	59	The Buls eye Rises Achronically	Dec.	
22	6	12	8	2	3	58		2	g
23	7	0	8	3	3	57	Day shortened 8. h. 34. m.	3	a
F	7	48	8	4	3	56		4	b
25	8	36	8	5	3	55		5	c
26	9	24	8	6	3	54		6	d
27	10	12	8	6	3	54	Orions feet S. at 12	9	e
28	11	0	8	7	3	53		8	f
29	11	48	8	8	3	52	Orions shoulder. S. at 12	9	g
30	12	36	8	9	3	51		10	a

December hath XXXI. dayes.

New moon the 3 day, 24 min. past 11 at night.
First quarter the 10 day, 39 min. past 6 at night,
Full moon the 18 day, half an hour before 1 morn.
Last quarter on Christmas day, half an hour past 11 nig.

To keep thy self in Action thou mayest play
At Cards or Dice, but not thy 'state away.

1	f	Adven. Sun	19	♐ 54	18	♏	55	♄ 21	9	♊	☍ ☉ ♄	
2	g	Libone	20	55	1	♐	4	♃ 24	58	♓	☌ ♀ ☾	
3	a	Osmond	21	56	15		34	♂ 20	50	♌	☌ ☿ ☾	
4	b	Barbara	22	57	29		26	♀ 11	11	♐	*Easterly*	
5	c	Sabine	23	59	13	♑	34	☿ 23	7	♐	*wind, with*	
6	d	Nicholas	25	0	27		53	♄ 20	44	♊	□ ♃ ☉	*frost*
7	e	Ambrose	26	1	12	♒	19	♃ 25	24	♓	☌ ☉ ☿	*snow*
8	f	2 in Advent	27	3	26		41	♂ 21	12	♌	*and clear*	
9	g	Cyprian	28	4	10	♓	59	♀ 16	28	♐	*air.*	
10	a	Eulalia	29	5	25		9	☿ 1	2	♑	☌ ♃ ☾	
11	b	Zintippa	0	♈ 6	9	♈	9	♄ 20	20	♊		
12	c	Paul B	1	8	23		1	♃ 25	54	♓	☍ ♄ ♀	
13	d	Lucie V.	2	9	6	♉	44	♂ 21	14	♌	*serene air*	
14	e	Nicasius	3	10	20		17	♀ 22	46	♐	*and fair,*	
15	f	3 in Advent	4	12	3	♊	42	☿ 9	2	♑	*but very cold*	
16	g	*O Sapientia*	5	13	16		57	♄ 19	56	♊	☌ ♄ ☾	
17	a	Lazarus	6	14	0	♋	1	♃ 26	30	♓	□ ♃ ♀	
18	b	Ember wee.	7	16	12		50	♂ 20	57	♌		
19	c	Venest	8	17	25		27	♀ 29	4	♐		
20	d	Julian	9	18	7	♌	11	☿ 17	9	♑	*cold abated*	
21	e	S. Tho. Ap.	10	20	20		1	♄ 19	33	♊	☌ ♂ ☾	
22	f	4 in Advent	11	21	2	♍	2	♃ 27	8	♓		
23	g	Victor	12	22	13		54	♂ 20	20	♌		
24	a	Candy	13	23	25		44	♀ 5	11	♑	*wet and*	
25	b	Christ. nat.	14	25	7	♎	34	☿ 25	20	♑	*windy*	
26	c	S. Stephen	15	26	19		29	♄ 19	11	♊	✱ ♃ ☿	
27	d	S. John Ev.	16	27	1	♏	36	♃ 27	50	♓	*dark air*	
28	e	Innocents,	17	29	14		1	♂ 19	23	♌	*and cloudy*	
29	f	1 aft. Christ.	18	30	26		44	♀ 11	39	♑	*with some*	
30	g	David.	19	31	9	♐	57	☿ 3	30	♑	✱ ♄ ♂	*rain*
31	a	Sylvester	20	32	23		36					

December, So called as being the tenth Month from *March*. The Saxons at first called it *Winter monat*, that is, Winter month, but after they received the Christian Faith, they called it *Heligbumonat*, that is Holy Month, because of the holy Feast of *Christmass* in this month.

	1	24	8	10	3	50	*Fust* ✶ *in Orions Girdle S. at* 12	11	B
2	2	12	8	11	3	49	*Twylight ends at* 6 *at night*	12	c
3	3	0	8	12	3	48	Day shortened 8 h. 48 m.	13	d
4	3	48	8	12	3	48		14	e
5	4	36	8	13	3	47	*Wagoners Shoulder S.* 12	15	f
6	5	24	8	13	3	47	*Orions right Shoulder S.* 12	16	g
7	6	12	8	13	3	47	—— *Of mirth now take thy fill,*	17	a
	7	0	8	13	3	47	*For mirth with measure can produce no ill.*	18	b
9	7	48	8	13	3	47		19	c
10	8	36	8	13	3	47	Day shortened 8 h. 52 m.	20	d
11	9	24	8	13	3	47	Shortest day 7 h. 34 m. long.	21	e
12	10	12	8	13	3	47	*The* ☉ *rises S.E. half a Point Easterly, and sets S. W. half a Point westerly, having amplitude from the East and West southerly* 40 *degrees, his meridian altitude being only* 15 *degrees, and so the reflex of his beams can yield but little heat to the inhabitants of these northern climates.*	22	f
13	11	0	8	13	3	47		23	g
14	11	48	8	13	3	47		24	a
F	12	36	8	13	3	47		25	b
16	1	24	8	13	3	47		26	c
17	2	12	8	12	3	48		27	d
18	3	0	8	11	3	49		28	e
19	3	48	8	10	3	50		29	f
20	4	36	8	9	3	51		30	g
21	5	24	8	8	3	52		31	a
S	16	12	8	7	3	53		Jan.	
23	7	0	8	6	3	54	*Feast not the rich ones,*	1	
24	7	48	8	5	3	55	*but thy Neighbours poor*	3	c
25	8	36	8	5	3	55	*So God will blesse thee and*	4	d
26	9	24	8	4	3	56	*increase thy store.*	5	e
27	10	12	8	4	3	56	Day lengthened 18 min.	6	f
28	11	0	8	3	3	57	*Castor South at* 12 *a clock*	7	g
F	11	48	8	3	3	57		8	A
30	12	36	8	2	3	58	*Little Dog South at* 12	9	b
31	1	24	8	2	3	58	*Great Dog South at* 12.	10	c

High water at London Bridge. Sun Rises. Sun Sets.

The Dominion of the Moon over the Parts of Mans Body passing under the twelve Signs of the Zodiack.

♈ Head and Face,

♉ Neck and throat

♊ Breast, stomach, and ribs,

♍ Bowels and belly

♏ Secret members

♑ Knees

♋ Arms and shoulders

♌ Heart and back

♎ Reins and loyns

♐ Thighs

♒ Legs

♓ the Feet

The Ram *doth rule the* Head *and* Face.
The Neck *and* Throat *is* Taurus's *place.*
The Twins *the* Arms *and* Shoulders *guide*;
The Crab, *the* Breast, *the* Spleen, *and* Side.
The Heart *and* Back's *bold* Leo's *share*;
Of Belly *and* Bow'ls, *the* Maid *takes care.*
To Libra Loins *and* Reins *belong*;
The Secret's *to the* Scorpion.
The Thighs *the* Archer *doth affect*;
The Capricorn *the* Knees *protect.*
The Legs *&* Aquarius's *lot doth fall*;
The Feet *to* Pisces; *last of all.*

♈ ♉ ♊ ♋ ♌ ♍ ♎ ♏ ♐ ♑ ♒ ♓

Thus doth the vertue of these Signs superiour,
Rule o're the Bodies of poor Wights inferiour;
But both are govern'd by God's sovereign might,
He's happy then that understands them right.

Sapiens dominabitur Astris.

Of the four Seasons or Quarters of this Year 1678.

Of the Spring.

THis Quarter taketh its beginning upon Sunday the 10th of *March*, at 14 min. after 3 of the Clock in the morning; at which time the Sun enters into the first scruple of the Vernal Equinoctial Sign *Aries*, making the Days and Nights of equal length all the World over. —— The proper nature and quality of this Quarter is hot and moist; hot, in respect of the Suns ascending nearer to the *Zenith* or *Vertex*; and moist, in respect of the Winters Vicinity.

Now Titans prefence begins to revive,
As well things sensible, as vegitive.

Of the Summer.

This Quarter beginneth upon Munday, the 11th of *June*, at 47 minutes after 5 in the afternoon; the Sun having then arrived to his greatest or utmost Northern limits, even to his Tropical Point *Cancer*, thereby making the longest Days and shortest Nights to all Northern Inhabitants in the World.— The nature of this Season is hot and dry.

Now Reapers panting both with heat and pain,
With crooked Razors shave the tufted Plain.

Of Autumn.

Autumn begins this Year upon Friday the 13th of *September*, at 12 min. after 2 in the morning, the Sun being now returned from his greatest Northern Progress, to his Autumnal Equinoctial Sign *Libra*, making again the Days and Nights to be of equal length. This Quarter is naturally cold and dry.

Now that good Husband which due season takes,
In these three Months his Years Provision makes.

Of Winter.

Winter begins this Year upon Wednesday the 11th of *December*, at 10 in the morning, the Sun being then at his greatest distance from the Equinoctial Southward, he then en-

sets into *Capricorn*, and makes the Days shortest, and the Night longest. —— This Quarter is naturally cold and moist.

Now for the bringing of these Seasons, and what each of them produce, to your remembrance, take this of *Ovid*:

Poma dat Autumnus, formosa est messibus Æstas.
Ver prabet Flores; Igne levatur Hyems.
Autumn gives Fruit, —— and Corn makes Summer fair;
Spring shews us Flowers, —— Fire helps cold Winters air.

Of the Eclipses this Year 1678.

THere will be five Eclipses this Year, three of the Sun, and two of the Moon.

The first is of the Sun will be upon the 11th of *April*, about 4 of the Clock in the morning, and so cannot be seen in *England*, but it will be conspicuous to the Inhabitants of *Tartaria*, and the Countries adjoyning.

The second is of the Moon, on the 26th of *April*, about 4 in the morning, not to be seen of us, but will be visible in *Persia*, *Arabia Felix*, and on the *Caspean Sea*, &c.

The third will be of the Sun upon the 5th of *October*, about 5 in the afternoon, but not to be seen in *England*.

The fourth will be of the Moon, upon the 19th of *October*, about 8 at night, and will be visible to the most part of *Europe*.

The fifth and last is of the Sun, upon the 4th of *November*, at 9 in the morning; it will hardly be seen here, but will be visible in the Northern Seas.

To' Opacous Moon by day obscures the light
Of splendent Sol, from men on Earth: By Night
The Sun opposeth her, and o're her face
Doth cast a Sable Mantle for a space.

A *Table* of *Interest* for several sums of Money, at the Rate of Six in the Hundred, for divers Months and Days: *Viz.*

	1. Month			2. Months			3. Months			5. Months			12. Months		
	l.	*sh.*	*p.*	*l.*	*sh.*	*p.*	*l.*	*sh.*	*p.*	*l.*	*sh.*	*p.*	*l.*	*sh.*	*p.*
500	2	10	0	5	0	0	7	10	0	15	0	0	30	0	0
400	2	0	0	4	0	0	6	0	0	12	0	0	24	0	0
300	1	10	0	3	0	0	4	10	0	9	0	0	18	0	0
200	1	0	0	2	0	0	3	0	0	6	0	0	12	0	0
100	0	10	0	1	0	0	1	10	0	3	0	0	6	0	0
90	0	9	0	0	18	0	1	7	0	2	14	0	5	8	0
80	0	8	0	0	16	0	1	4	0	2	8	0	4	16	0
70	0	7	0	0	14	0	1	1	0	2	2	0	4	4	0
60	0	6	0	0	12	0	0	18	0	1	16	0	3	12	0
50	0	5	0	0	10	0	0	15	0	1	10	0	3	0	0
40	0	4	0	0	8	0	0	12	0	1	4	0	2	8	0
30	0	3	0	0	6	0	0	9	0	0	18	0	1	16	0
20	0	2	0	0	4	0	0	6	0	0	12	0	1	4	0
10	0	1	0	0	1	0	0	3	0	0	6	0	0	12	0

	1 Day			2 Days			3 Days			5 Days			10 Days		
	l.	*p.*	*q.*	*sh.*	*p.*	*q.*	*sh.*	*p.*	*q.*	*sh.*	*p.*	*q.*	*sh.*	*p.*	*q.*
500	1	8	0	3	4	0	5	0	0	8	4	0	16	8	0
400	1	4	0	2	8	0	4	0	0	6	8	0	13	4	0
300	1	0	0	2	0	0	3	0	0	5	0	0	10	0	0
200	0	8	0	1	4	0	2	0	0	3	4	0	6	8	0
100	0	4	0	0	8	0	1	0	0	1	8	0	3	4	0
90	0	3	3	0	7	0	0	10	2	1	6	0	3	0	0
80	0	3	0	0	6	0	0	9	0	1	3	0	2	6	0
70	0	2	3	0	5	2	0	8	0	1	1	2	2	3	0
60	0	2	1	0	4	2	0	7	0	1	0	0	2	0	0
50	0	2	0	0	4	0	0	6	0	0	10	0	1	8	0

Which Table by Addition, Substraction, and Multiplication of the Sums, Months, and Days, will shew what is due for any other sum of money, for any other number of Months or Days than are herein expressed.

The use of the following TABLE, for the Purchase of Leases, &c.

The Table consists of 5 Columns, The first contains any number of years that are to be purchased, from 1 year to a 100.

The second tells you, how many years and odd Months purchase such a Lease is worth ready Money, 5 *l. per Cent.* being allowed for the Interest of the Money laid out.

The third Column shews, what the same is worth at 6 *l. per Cent.* The fourth at 8 *l. per Centum.*

Example. What is a Lease of 51 years to come worth in ready Money, at 5 *l. per Cent.* and the last at 10 *l. per Cent.*

Look in the first Column for 51 years, and right against it under 5 *per Cent.* you shall find 18, 3, which shews the Lease is worth 8 years purchase, and 3 Months, which is a quarter of a year. So that if the Rent were 10 *l.* a year, then 18 times 10 *l.* is 182 *l.* and the quarter of the year is 2 *l.* 10 *s.* in all 182 *l.* 10 *s.* and so much is the Lease worth in ready Money, at 5 *per Cent.* —— But if the Purchaser would have 6 *l.* 8 *l.* or 10 *l.* profit for his Money, then

	l.		*Year*	*Mon.*		*l.*	*s.*	*d.*
At	6	*Profit for his*	19	9	*Purchase which*	157	10	0
	8	*money, the Lease*	12	3	*comes to*	122	10	0
	10	*is worth*	4	11	*but*	99	3	—

And thus you may do for any other number of Years.

	l.		*Years.*	*Months.*	
So a Lease for	5	*Per Cent.*	12	10	*Pur-*
21 Years at	6	*is worth*	11	9	*chase.*
	8		10	0	
	10		8	11	

Let the Rent be what it will.

A Table for the Purchase of Leases of Lands, or Houses, ready cast up at 5 l. 6 l. 8 l. and 10 l. Per Cent. Compound Interest.

The Number of Years to be Purchased	At V Per Cent. Years	Mon.	At VI Per Cent. Years	Mon.	At VIII Per Cent. Years	Mon.	At X Per Cent. Years	Mon.
	The Value of the Purchase in							
1	0	11	0	11	0	11	0	11
2	1	10	1	10	1	9	1	9
3	2	9	2	8	2	7	2	6
4	3	7	3	6	3	4	3	2
5	4	4	4	3	4	0	3	9
6	5	1	4	11	4	7	4	4
7	5	9	5	7	5	2	4	11
8	6	6	6	2	5	9	5	4
9	7	1	6	10	6	8	5	9
10	7	9	7	4	6	9	6	2
11	8	4	7	11	7	2	6	6
13	9	5	8	10	7	11	7	1
15	10	5	9	9	8	7	7	7
17	11	3	10	6	9	1	8	0
19	12	1	11	2	9	7	8	4
21	12	10	11	9	10	0	8	11
23	13	6	12	4	10	4	9	1
25	14	1	12	9	10	8	9	3
27	14	2	13	3	10	11	9	4
29	15	2	13	7	11	2	9	6
31	15	7	13	11	11	4	9	9
41	17	1	15	1	11	11	9	10
51	18	3	15	9	12	3	9	11
61	18	11	16	2	12	4	10	0
71	19	4	16	5	12	5	10	0
81	19	7	16	6	12	6	10	0
91	19	9	16	7	12	6	10	0
&c.	20	0	16	8	12	6	10	0

A Brief View of the Principles of *Astronomy*, and principally of such as concern the Natural, Annual, and Diurnal Motions of the Planets; and in the discourse of them, a Refutation of the *Copernican* Opinion concerning the Earths Motion.

THere is nothing wherein the wonderful Power and Glory of God is more visibly expressed, than in the admirable Frame of this great Universe of Heaven and Earth. And the reasons why most men are no more affected with it, are; First, the commonness of the things: Secondly, the ignorance of the order and causes thereof; whereas they that know any thing hereof, cannot but admire the works of God herein; as we may see by the Prophet *David*, who so often speaks hereof in the Psalms. I shall therefore as briefly and plainly as I can shew you some part of these wonders, and then I shall shew you how these things are found out, and proved to be so, that you may not take them for vain fancies, but in some measure see them to be truths.

First, you must know that in this visible world there are these eminent parts which deserve a particular consideration.

1. The Globe of the *Earth*.
2. The Globe of the *Moon*.
3. The Globe of *Mercury*.
4. The Globe of *Venus*.
5. The Globe of the *Sun*.
6. The Globe of *Mars*.
7. The Globe of *Jupiter*.
8. The Globe of *Saturn*.
9. The Heaven of the Fixed Stars
   Some add to these
10. The Cristaline Heaven.
11. The first moving Heaven.

And

And of these I shall particularly treat; but for the better understanding of the following discourse, it will be necessary to acquaint you with what a material Sphere or Globe is, and what Circles, Lines and Points are described thereon, as imagined really to be in the Heavens.

I. *Of the* Sphere *or* Globe.

Theodosius, an Ancient and Learned *Mathematician*, who writ much of the Sphericks, thus defineth a Sphere or Globe. *Sphera est solidum, una superficie contentum, in cujus medio punctum est, à quo omnes rectæ lineæ ductæ ad superficiem ambientem sunt equales.* That is, a *Sphere* or *Globe* is a solid Body, containing one Superficies; in whose middle there is a point, from which all right lines drawn to the Superficies are equal.

Upon the Superficies of this *Sphere* or *Globe* are described several *Circles* and *Points*, (which are only imagined in the Heavens) thereby the better to inform the fancy; for by them (in the *Cœlestial Globe*) the several Constellations of the *Fixed Stars* are limited, and their situation denominated: And the same Circles described upon the *Terrestrial Globe*, do confine and bound the Zones and Climates.

These *Imaginary Circles* are in number *Ten*; of which *Six* are called *Great Circles*, and *Four* are *Lesser Circles*: Those *Circles* are called *Great Circles*, which being drawn upon the Globe, do divide the Superficies thereof into two equal parts; and those are called *Lesser Circles*, which divide the Superficies of the Globe unequally.

II. *Of the* Circles *of the* Sphere.

Every of the forementioned Circles hath a peculiar name attributed unto it; and the names of

The six Great Circles, are these:

1. *The Horizon.*
2. *The Meridian.*
3. *The Equinoctial.*
4. *The Zodiack.*
5. } *The Colures.*
6. }

Of these two *Colures*, the one is called the *Æquinoctial Colure*, dividing the Sphere into two equal parts in the points of *East* and *West*, and the other is called the *Solsticial Colure*, dividing the Sphere into two equal parts in the Points of *North* and *South*: So that these two Colures crossing one

another at right Angles in the *Poles* of the World, do divide the Globe into four equal Quarters.

The four lesser Circles *are*,

1. The *Tropick* of *Cancer*; Or the Northern Tropick.
2. The *Tropick* of *Capricorn*; Or the Southern Tropick.
3. The *Circle Artick*; Or the North-polar Circle.
4. The *Circle Antartick*; Or the South-polar Circle.

Besides these Circles, there are upon the Superficies of the Globe, other Points and Lines of special note and use: As,

1. The two *Poles* of the World, { North, and South.
2. { The Zenith, } Or point in { Over our Heads.
3. { The Nadir, } the Heaven. { Under our Feet.
4. The *Poles* of the *Ecliptique*.
5. The *Ecliptique Line*, or *Via Solis*. And
6. There is another imaginary Line supposed to pass from *Pole* to *Pole*, through the Body of the *Globe*; and this line is called, *the Axis of the World*, for that the motion of the Heavens is wholly upon the Poles of the World.

Having thus given you the names of the several *Circles*, *Lines*, and *Points*, which are in the Heavens imagined, I will give you a brief account of each particular, by which you may easily conceive how they are drawn upon the *Globe*.

III. *Of the use and Office of these* Circles, Points, *and* Lines: *And*

1. *Of the* HORIZON.

The *Horizon* is a great Circle of the Sphere, dividing the visible part of the Heavens from the not visible, that is, the lower Hemisphere from the higher: As suppose you were at Sea, or upon a high Hill upon the Land, and looking round about you, you imagine that the *Skie* and *Water*, or the *Skie* and the *Earth* did meet and touch each other. Now this line of Separation of the *Skie* and *water*, or *Earth*, is the *visible Horizon*, and is that which is imagined to be in the Heavens.

Unto this Circle, when either the *Sun*, *Moon*, *Stars*, or any of the *Planets* do come on the East-part of the Heavens, they are then said to rise; and when any of them come to this

line

line on the West-part of the Heavens, then the *Sun*, or such a *Star* or *Planet* is said to set: So that the *Rising* and *Setting* of the *Sun*, *Moon*, and *Stars*, are limited and bounded by this Circle.

2. *Of the* MERIDIAN.

The *Meridian* is a great Circle of the Sphere, which passeth through the *Zenith* and *Nadir* Points, and also through both the *Poles*, and divideth the *Horizon* into two equal parts in the Points of *North* and *South*, which passeth through the *Zenith* point in the Heavens, which is directly over your head, in what part of the World soever you are, and the *Nadir* (which is the point directly under your feet, and opposite to the *Zenith*) and it also crosseth or divideth the *Horizon* in the *North* and *South* Point.

Unto this Circle, when the *Sun*, *Moon*, or any other *Star* or *Planet* cometh, it is said to be upon the *Meridian*, or at the highest it can be that day or night; so that when the *Sun* riseth towards the *East* in the morning, it ascendeth higher and higher, till it cometh to this Circle, and then it is Noon; after which it descendeth lower and lower, till it set in the Evening in the West-part of the *Horizon*.

3. *Of the* ÆQUINOCTIAL.

The *Æquinoctial* is a great Circle, dividing the Sphere into two equal parts, and passeth through the *East* and *West* points of the *Horizon*, and also through the *Meridian* in two points, which are so far distant from the *Zenith* and *Nadir* points, as the *Poles* are distant from the *Horizon*: So that the *Axis of the World*, which passeth from *Pole* to *Pole*, cutteth this Circle at right Angles.

Unto this Circle when the *Sun* cometh (which is twice every year, namely, about the tenth of *March*, and the twelfth of *September*) it maketh the Days and Nights of equal length through the whole World; for that at that time the *Sun* riseth due *East*, and sets due *West*; which at no other times of the year it doth, but rises and lets Northward of the *East* or *West* points, from the tenth of *March* to the twelfth of *September*, and Southward of the *East* or *West* from the twelfth of *September* to the tenth of *March* again.

4. *Of*

4. Of the ZODIACK.

The *Zodiack* is a great Circle, dividing the Sphere or Globe into two equal parts, in the *East* and *West* points of the *Horizon*, and cutteth both the *Horizon* and *Æquinoctial* in oblique Angles; for it cuts the *Horizon* at an Angle equal to the *Suns* greatest *Meridian Altitude*, in any *Latitude*, and the *Æquinoctial* at an Angle equal to the *Suns greatest Declination*. This Circle is called by some, *The Girdle of the World*, it having imbroidered (as it were) upon it, the Figures of the 12 *Celestial Signs*. But through the middle thereof there is a line, which is called the *Ecliptick Line*; or *Via Solis*, for that the *Sun* in his motion never deviates from this line (though the other Planets do more or less.) The Poles of this Circle are upon the *Meridian*, so far distant from the Poles of the World, as is the *Suns* greatest Declination.

5. And 6. Of the two COLURES.

The two *Colures* are two great Circles, passing through the *Poles* of the World, and there cutting each other at right Angles: The one of these Colures cutteth the *Ecliptick Line* in the points of ♈ and ♎, and is called the *Æquinoctial Colure*: The other cutteth the *Ecliptick* in the points of ♋ and ♑, and is called the *Solsticial Colure*.

When the *Sun* is in that Sign or Point of the *Ecliptick*, which meeteth with the *Æquinoctial Colure*, which is in the first scruples of ♈ or ♎, then are the Days and Nights equal: But when the *Sun* cometh to those Points of the *Ecliptick*, which are cut by the *Solsticial Colure*, which are in the beginning of ♋ and ♑; then the *Sun* being in ♋, it maketh the longest day to all the Northern, and the shortest day to all the Southern Inhabitants of the World: And being in *Capricorn*, it maketh the shortest day to the Northern, and the longest to the Southern Inhabitants.

Of the Four lesser Circles.

1. Of the two TROPICKS.

The *Tropicks* of *Cancer* and *Capricorn*, are two Circles drawn upon the Superficies of the Globe, parallel or equidistant from the *Æquinoctial*, on the North and South-side thereof at 23 degrees, 31 minutes distance therefrom; the one is called the *Northern Tropick*, the other the *Southern*. 3. *And*

3. And 4. Of the Circles ARTICK and ANTARTICK.

These are two small Circles drawn about the Poles of the World, parallel or equidistant to the *Æquinoctial* and *Tropicks*; and the Circle *Artick* is so far distant from the *North-Pole*, as the *Tropick* of ♋ is from the *Æquinoctial*; and the *Antartick* is at the same distance from the *South-Pole*; and in these two Circles are the two *Poles* of the *Ecliptick*. Let this (at present) suffice for the understanding of the Spherical *Circles*; I shall now treat of the several Orbs. And

1. Of the Earth.

THis one would think should be perfectly known of us, since it is our natural habitation wherein God hath placed us; but yet such is our ignorance hereof, that not only among the common sort, but there hath been much to do among the Learned, to prove that this great Body of the Earth and Water is exactly round like a Globe. And it hath been counted a very Fable, that there should be any *Antipodes* or people dwelling in any part of the Earth directly under us, supposing such would be ready to drop down from the Earth into the Heavens. But that the Earth is round, it may appear by the round shadow of the Earth upon the Moon, when she is eclipsed; and likewise by the difference of time, wherein eclipses are seen in several places. But the most convincing Argument to prove both the roundness and the habitableness of all parts of the Earth, whether we account them above, or under, is the daily experience of our Seamen, who have and do daily sail about it, specially from the East to the West. And though the Earth cannot be surrounded by the North and South Poles, in regard of the cold and ice, yet by the agreement which is found between the distance and the latitude of places lying North and South, it is evident that the Earth is neither flat, nor square, nor oval (as some have imagined) but perfectly round.

The second thing worthy consideration herein, is the compass of the Earth. And herein there is much difference between Ancient and Modern Writers, which ariseth partly from the difference of their measures, unknown to each other.

The

The beſt account hereof I ſuppoſe is given by Mr. *Norwood*, who for this purpoſe *Anno* 1635. meaſured the diſtance between *York* and *London*, and ſo exactly taking the latitudes of thoſe two places, found that one degree in the compaſs of the Earth did contain 367200 of our Engliſh feet: ſo that the whole compaſs of the Earth being 360 degrees, will be 132192000 feet, which reduced into miles, according to the Statute, each mile containing 5280 feet, it yields 25036 miles. By this you may ſee this Globe of Earth and Water, though it ſeem ſo great to ſome that it cannot be meaſured, or incompaſſed, yet is but a ſmall thing, conſidered by the Rules of Art; inſomuch that a Ship ſailing one hundred miles every day (which it may well do) it will ſurround this Globe in 250 days; which is leſs than three quarters of a year.

Thirdly, It may be enquired, whether the Earth be the center of the Univerſe or not; and whether it ſtands ſtill, or hath any motion?

For anſwer hereunto, I ſay, it hath been the moſt received, and in my judgment the beſt grounded opinion, That this Globe of Earth is the center of the Univerſe, being without any motion, and that the Sun, Moon and Stars are moved round about it: Yet it was the opinion of *Pythagoras* and *Ariſtarchus* (very ancient Philoſophers) that the Sun is the center of the Univerſe, and that this Globe of the Earth is turned round about the Sun, together with the Moon, and the reſt of the Stars and Planets. This Theory was left off by *Ptolomy*, whom moſt of our following Aſtronomers have followed until *Copernicus*, who revived the foreſaid Hypotheſis, and ſince that he hath had many followers. And though this may ſeem to be a very ſtrange conceipt, yet they bring very probable Arguments (in point of Art) to confirm it. In anſwer to which, I ſhall propound theſe ſix conſiderations.

First, That this opinion is at the beſt fortified but with probable Arguments; whereas for the ſtanding ſtill of the Earth we have daily a ſenſible, if not a real experience. And though our ſenſes may be deceived herein; yet it will be hard to prove that they are deceived.

Secondly,

Secondly, Though this Theory, in some respects, doth yield much harmony in the places and motions of the seven Planets, giving a good account of their direct and retrograde motions, without any epicicles; yet it fails much in the fixed Stars; supposing them to be so far distant from the center of the Universe, as is beyond all probability. For it is certain by the most accurate observations of *Tycho Brahe*, and his Successor *Longomontanus*, that there is not the least observeable difference in the latitude of places observed by the fixed Stars, at any one time of the year more than other; no not to the quantity of half a minute. And therefore if this Theory be allowed, it must be granted, that there is such a distance between the fixed Stars, and the center of the World, that not only the Globe of the Earth, but that vast distance of the Sun from the Earth (which is the semidiameter of the Suns Annual motion) must in respect thereof be but a little point, not causing half a minutes parallax or difference of appearance. Now if such a distance be allowed as is requisite for this purpose, observe how it will exceed all proportion. For whereas *Saturn*, the farthest of the Planets, by the consent of all Astronomers, is distant from the Earth but about 11000 semidiameters of the Earth, the fixed Stars according to this account must be distant 7904818 semidiameters. So that the place between *Saturn* and the Stars is 7892818 semidiameters, which is 658 times more than *Saturn* is distant from the center. Thus you see there is no proportion between this vast distance of the Stars above *Saturn*, and the Planets under him. Besides, all this vast distance is but waste and useless, there being no Stars nor any visible furniture therein, and God and Nature makes nothing in vain.

Again, if according to this foresaid distance you calculate the quantity of the fixed Stars by their visible diameters, a Star of the first magnitude will be greater than the Sun it self 6907143 times, and their true semidiameter or half the breadth of such a Star, will be more than 8 times the distance which is between the Sun and the Earth. But these things are so unlikely, that it makes as much against this Hypothesis, as the other probabilities plead for it.

Thirdly,

Thirdly, the followers of this Opinion hold, that the Earth hath a daily motion, whereby it is turned round about upon its own Axis every day. And for this motion they bring a very plausible Argument; For by this (say they) the incredible swiftness of the Heavens and Stars is very well salved. For if according to *Tycho*, you allow the fixed Stars to be but 14000 semidiameters distant from the Earth; whereas *Ptolomy* accounts them 20000, yet the Stars near the Equator must move every minute of an hour 240000 miles to perform its daily motion round about the Earth. This motion they count too swift for any natural body to perform; and therefore think it more likely that the Earth should turn about once every day, and thereby cause the rising and setting of the Sun and Stars.

This conjecture is so probable, that many who are against the Annual motion of the Sun, yet yield to this daily motion: But yet I conceive that the Earth is not subject to this motion neither: For if the Earth should according to this opinion move every day round upon its own Axis, then we which live upon the surface of the Earth must be moved with the Earth above 1000 miles every hour. Which motion, though it be very slow in respect of the foresaid swiftness of the Stars, yet considered by it self, and compared with the motion of things here below, it is exceeding swift, far surpassing the flight of the swiftest Bird, or the Bullet from the Cannons mouth. And therefore surely if any such motion were, we should be more sensible of it than we are.

But grant that this motion should be performed by the Earth, and we not sensible of it, in regard of constant use unto it; as men that are used to the Sea are not troubled so much with the motion of the Ship as others are: Yet judge whether it be not more likely that the Heavens, Sun, Moon and Stars, being all light and pure bodies, should perform the foresaid swift motion (though to us almost incredible) then that the Earth (a dull and heavy body) should perform this later motion. As we see by experience that a Horse being a Creature of a nimble fiery temper, is better able to run 20 or 30 miles in one hour, than a Snail which is a dull sluggish

Creature

Creature to creep one poles length, which is ſcarce the ten thouſandth part thereof.

Conſider alſo that this ſwift motion in the Heavens is no more to be wondred at than the vaſtneſs of their circumference; and it is but reaſonable to think, that God who hath made them of ſo great compaſs, hath likewiſe fitted them for ſo ſwift a motion. And the truth is, ſwiftneſs of motion depends neither upon the greatneſs or ſmalneſs of the Creature, but upon the appointment of the Creator. Thus we ſee by experience the little Hare exceeds for ſwiftneſs both the Sheep, a Midling, and the Oxe a Creature of the largeſt ſize; and yet is out-ſtripped by the Dog and Horſe, Creatures likewiſe of the middle and the larger ſize. So that it is neither the ſmaller compaſs of the Earth, nor the larger compaſs of the Heavens, which can either prove or diſprove the daily motion of either: But herein the wonderful Power of God is the more magnified in making the Heavens, not only by their vaſtneſs to incompaſs the Earth, but alſo by their ſwiftneſs daily to ſurround the ſame.

Fourthly, Though this Theory in ſome things may be more plainly demonſtrated by Geometry than the Theory of *Ptolomy*, being freed from thoſe Epicicles; yet this may alſo be performed by the Hypotheſis of *Tycho*; and the places and Aſpects of the Planets may be as truly and readily calculated thereby as by this. Experience we had hereof in that great Eclipſe of the Sun the 29 of *March* 1652. about which moſt of our Writers following new Tables, according to this Hypotheſis, were greatly miſtaken in the time of the Eclipſe; reckoning it half an hour too ſoon: Whereas I calculating it by the Tables of *Tycho*, and *Longomontanus*, it fell out very exactly. And you ſhall find that in all the Eclipſes obſerved by *Tycho* and *Longomontanus*, their Tables never failed them ſo much. And for the motions of the Sun and Moon, there are none like them: ſo that you ſee there is no neceſſity of following this ſtrange Hypotheſis.

Fifthly, This Opinion is againſt the conſtant Tenor and ordinary phraſe of the holy Scriptures, which ought to be had in ſpecial reverence; and from which we ought to be very

careful

careful how we vary in any thing, pretending the Scripture speaks herein according to the sense and apprehension of common people, especially when the thing pleaded for is so unlikely and unnecessary.

Lastly, This Opinion is of dangerous consequence, the followers thereof being subject to fall into many vain curiosities, and fruitless errours: As that the Moon, and the rest of the Planets and Stars, may be each of them habitable places, as well as the Earth; and some have written largely to prove, that there is a World in the Moon, and that our Earth gives light unto them, as the Moon doth unto us; and so account the Earth so be as one and the same kind with the Stars and Planets; whereas it is plain in *Gen.* 1. that God made the Earth on the third day of the Creation, and furnished it with all sorts of Herbs and Trees; but the Sun, Moon, and Stars were not made until the fourth day: Which is enough to prove them Creatures of a different kind and nature; and we cannot find the least hint that God made the Moon, &c. for an habitable place, or the Earth to give light to the Heavens; but *ver.* 14, 15. it is plainly expressed, that *God said, Let there be light in the Firmament of Heaven, to separate the day from the night. And let them be for lights in the Firmament of Heaven, to give light upon the Earth; and it was so.* There is not a syllable of the Earths mutual and reciprocal light.

To conclude this particular, most of you I suppose are ready enough to think, that these men err very much in making the Heavenly Bodies to be Earthly Habitations; yet give me leave to tell you, that there is a more common and dangerous errour, which we had all need to take heed of; and that is, that we do not account this Earthly Dunghil to be our Heavenly Habitation, by laying out all our care and pains upon it: But whilst we live upon the Earth, let our Conversations be in Heaven, from whence we look for a Saviour, the Lord Jesus Christ. And now leaving the *Earth*, it is time to ascend to the other Orbs, *viz.* that of the *Moon*, *Mercury*, *Venus*, the *Sun*, *Mars*, *Jupiter*, *Saturn*, the *Fixed Stars*, the *Crystalline*, and first moving Heavens; but having no more room in this place, I shall refer them till the next year.

FINIS.